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# IL1B Antibody - N-terminal region : FITC (ARP54323\_P050-FITC)

Data Sheet

|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Number               | ARP54323_P050-FITC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Product Page                 | <a href="http://www.avivasysbio.com/il1b-antibody-n-terminal-region-fitc-arp54323-p050-fitc.html">www.avivasysbio.com/il1b-antibody-n-terminal-region-fitc-arp54323-p050-fitc.html</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Name                         | IL1B Antibody - N-terminal region : FITC (ARP54323_P050-FITC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Protein Size (# AA)          | 269 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Molecular Weight             | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Conjugation                  | FITC: Fluorescein Isothiocyanate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| NCBI Gene Id                 | 3553                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Host                         | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clonality                    | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Concentration                | 0.5 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Full Name               | Interleukin 1, beta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alias Symbols                | IL-1, IL1F2, IL1beta, IL1-BETA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Peptide Sequence             | Synthetic peptide located within the following region:<br><a href="#">MAEVP ELASEMMAYYS GNEDDL FFEADGPK QMKCSFQDL DLCPLDGGIQL</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Product Format               | Liquid. Purified antibody supplied in 1x PBS buffer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Description of Target        | IL1B is a member of the interleukin 1 cytokine family. This cytokine is produced by activated macrophages as a proprotein, which is proteolytically processed to its active form by caspase 1 (CASP1/ICE). This cytokine is an important mediator of the inflammatory response, and is involved in a variety of cellular activities, including cell proliferation, differentiation, and apoptosis. The induction of cyclooxygenase-2 (PTGS2/COX2) by this cytokine in the central nervous system (CNS) is found to contribute to inflammatory pain hypersensitivity. The gene encoding IL1B and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. |
| Protein Interactions         | PTPN1; LYN; FYN; CMA1; CASP1; APP; SP1; EGR1; ELAVL1; CASP4; IL1RAP; PRTN3; IL1R2; IL1R1; IL1B; MMP2; ADRB2; A2M; UBE2N; ZNF675; MAPK8IP2;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Reconstitution and Storage   | All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.                                                                                                                                                                                                                                                 |
| Datasheets/Manuals           | Printable datasheet for <a href="#">anti-IL1B (ARP54323_P050-FITC) antibody</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Blocking Peptide             | For anti-IL1B (ARP54323_P050-FITC) antibody is <a href="#">Catalog # AAP54323</a> (Previous Catalog # AAPP43207)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen                    | The immunogen is a synthetic peptide directed towards the N terminal region of human IL1B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Uniprot ID                   | <a href="#">P01584</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Protein Name                 | Interleukin-1 beta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Publications                 | Wang, F. et al. Shigella flexneri T3SS effector IpaH4.5 modulates the host inflammatory response via interaction with NF- $\kappa$ B p65 protein. Cell. Microbiol. 15, 474-85 (2013). <b>WB, Human, Pig, Dog, Rabbit, Horse, Mouse</b><br><a href="#">23083102</a>                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Protein Accession #          | <a href="#">NP_000567</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purification                 | Affinity Purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Nucleotide Accession #       | <a href="#">NM_000576</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Gene Symbol                  | <a href="#">IL1B</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Predicted Species Reactivity | Human, Mouse, Dog, Horse, Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Application                  | IHC, WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                                               |                                                                                   |
|---------------------------------------------------------------|-----------------------------------------------------------------------------------|
| <b>Predicted Homology<br/>Based on Immunogen<br/>Sequence</b> | Dog: 92%; Horse: 86%; Human: 100%; Mouse: 75%; Rabbit: 92%                        |
| <b>Image 1</b>                                                |  |

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