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- Diagnostik & molekulare Diagnostik
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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-P38 Alpha (MAP Kinase) Antibody [9F12]

Mouse Anti-Human p38 alpha (MAP Kinase) Monoclonal IgG1
Catalog No. SMC-152

StressMarq Biosciences INC.
Discovery through partnership | Excellence through quality

Overview

Product Name

p38 alpha (MAP Kinase) Antibody

Description

Mouse Anti-Human p38 alpha (MAP Kinase) Monoclonal IgG1

Species Reactivity

Human, Mouse, Rat

Applications

WB, IHC, IP, ELISA

Antibody Dilution

WB (1:1000), IHC (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Human

Immunogen

Full length recombinant protein expressed in E.coli cells

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS, 50% glycerol, 0.09% sodium azide

Storage Temperature

-20ºC

Shipping Temperature

Blue Ice or 4ºC

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

9F12

Isotype

IgG1

Specificity

Detects ~38kDa.

Cite This Product

Mouse Anti-Human p38 MAPK Monoclonal, Clone 9F12 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-152)

Certificate Of Analysis

Detects ~38kDa protein corresponding to p38? MAPK when loaded with 6 ng of purified p38? by chemiluminescent immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

CSAID Binding protein 1 Antibody, CSBP1 Antibody, CSBP2 Antibody, EXIP Antibody, MAP kinase MXI2 Antibody, MAPkinase p38alpha Antibody, MAPK14 Antibody, p38 ALPHA Antibody, p38 MAP kinase Antibody, p38 mitogen activated protein kinase Antibody, RK Antibody, SAPK 2A Antibody, Stress activated protein kinase 2A Antibody

Research Areas

Cancer, Cell Signaling, Phosphorylation, Post-translational Modifications

Cellular Localization

Cytoplasm, Nucleus

Accession Number

NP_001306.1

Gene ID

1432

Swiss Prot

Q16539

Scientific Background

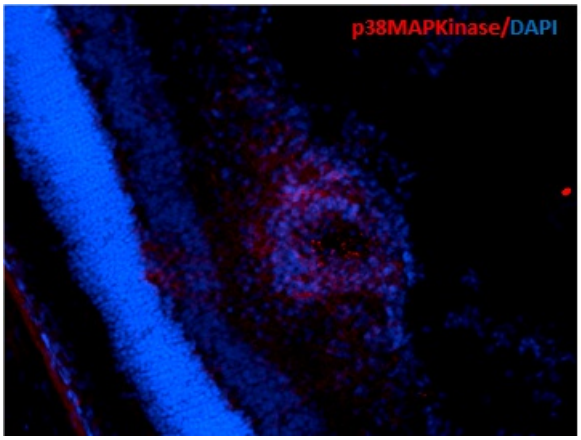
The MAPK (mitogen activated protein kinase) comprises a family of ubiquitous praline-directed, proteinserine/ threonine kinases which signal transduction pathways that control intracellular events including acute responses to hormones and major developmental changes in organisms (1). This super family consists of stress activated protein kinases (SAPKs); extracellular signal-regulated kinases (ERKs); and p38 kinases, each of which forms a separate pathway (2). The kinase members that populate each pathway are sequentially activated by phosphorylation. Upon activation, p38 MAPK/SAPK2? translocates into the nucleus where it phosphorylates one or more nuclear substrates, effecting transcriptional changes and other cellular processes involved in cell growth, division, differentiation, inflammation, and death (3). Specifically p38 always acts as a pro-apoptotic factor with its activation leading to the release of cytochrome c from mitochondria and cleavage of caspase 3 and its downstream effector, PARP

(4). p38 MAPK is activated by a variety of chemical stress inducers including hydrogen peroxide, heavy metals, anisomycin, sodium salicylate, LPS, and biological stress signals such as tumor necrosis factor, interleukin-1, ionizing and UV irradiation, hyperosmotic stress and chemotherapeutic drugs (5). As a result, p38 alpha has been widely validated as a target for inflammatory disease including rheumatoid arthritis, COPD and psoriasis (6) and has also been implicated in cancer, CNS and diabetes (7).

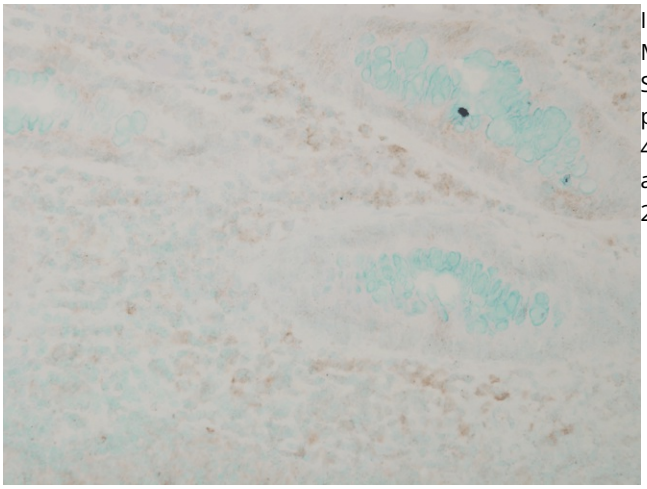
References

1. Pearson, G. et al (2001). Endocrine Reviews 22 (2): 153-183.
2. Fan, Y. et al (2007) Mol. Cells 23 (1): 30-38.
3. Han, J. et al. (1994) Science 265: 808-811.
4. Van, L. A., et al. (2004) Faseb J. 18: 1946?1948.
5. Deng et al. (2003) Cell. 115: 61-70.
6. Salojin KV, et al. (2006) J Immunol. 176 (3):1899-907.
7. Medicherla S. et al. (2006). J Pharmacol Exp Ther.318(1): 99-107.

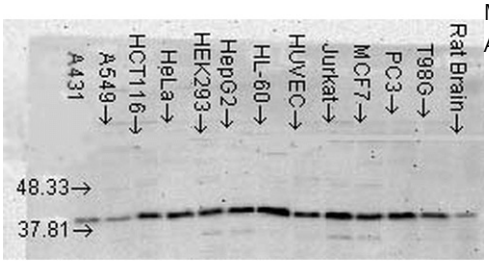
Product Images



Immunohistochemistry analysis using Mouse Anti-p38 MAPK Monoclonal Antibody, Clone 9F12 (SMC-152). Tissue: Retinal Injury Model. Species: Mouse. Primary Antibody: Mouse Anti-p38 MAPK Monoclonal Antibody (SMC-152) at 1:1000. Secondary Antibody: Alexa Fluor 594 Goat Anti-Mouse (red). Courtesy of: Dr. Rajashekhar Gangaraju, University of Indiana, Department of Opthamology, Eugene and Marilyn Glick Eye Institute.



Immunohistochemistry analysis using Mouse Anti-p38 MAPK Monoclonal Antibody, Clone 9F12 (SMC-152). Tissue: colon carcinoma. Species: Human. Fixation: Formalin. Primary Antibody: Mouse Anti-p38 MAPK Monoclonal Antibody (SMC-152) at 1:10000 for 12 hours at 4°C. Secondary Antibody: Biotin Goat Anti-Mouse at 1:2000 for 1 hour at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 200 µl for 2 minutes at RT. Magnification: 40x.



Western Blot analysis of Human Cell lysates showing detection of p38 MAPK protein using Mouse Anti-p38 MAPK Monoclonal Antibody, Clone 9F12 (SMC-152). Load: 15 µg protein. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-p38 MAPK Monoclonal Antibody (SMC-152) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

Product Citations (2)

Other Citations

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

Mendoza, A., Dias, J.A., Zeltner, T. and Lawrence, D.A. (2014) J Adv Bio & Biotech. 1(1): 1-22.

PubMed ID: **Reactivity:** Human **Applications:** Antibody Microarray

Biomarker Analysis with Grating Coupled Surface Plasmon Coupled Fluorescence.

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PubMed ID: **Reactivity:** Mouse **Applications:** Antibody Microarray

Reviews

There are no reviews yet.