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- Trockeneiszuschlag
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SANTA CRUZ BIOTECHNOLOGY, INC.

NFKBIL1 (C-5): sc-518230

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

NFκB, a pleiotropic transcription factor, is present in almost all cell types and is involved in many biological processes including inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NFκB is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFKB1/p105, NFKB1/p50, REL and NFKB2/p52. This complex is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. The NFκB inhibitor-like protein 1 (NFKBIL1), also designated IKBL, acts as a negative regulator of NFκB activation. Mutations in the NFKBIL1 gene have been linked to several disorders including type 1 diabetes, rheumatoid arthritis, ulcerative colitis and chronic Chagas cardiomyopathy.

REFERENCES

1. Ruben, S.M., et al. 1992. Functional characterization of the NFκB p65 transcriptional activator and an alternatively spliced derivative. Mol. Cell. Biol. 12: 444-454.
2. Deloukas, P. and van Loon, A.P. 1993. Genomic organization of the gene encoding the p65 subunit of NFκB: multiple variants of the p65 protein may be generated by alternative splicing. Hum. Mol. Genet. 2: 1895-1900.
3. Handel-Fernandez, M.E. and Vincek, V. 1999. Sequence analysis and expression of a mouse homolog of human IκBL gene. Biochim. Biophys. Acta 1444: 306-310.
4. de la Concha, E.G., et al. 2000. Susceptibility to severe ulcerative colitis is associated with polymorphism in the central MHC gene IKBL. Gastroenterology 119: 1491-1495.
5. Yamashita, T., et al. 2004. IKBL promoter polymorphism is strongly associated with resistance to type 1 diabetes in Japanese. Tissue Antigens 63: 223-230.
6. Shibata, H., et al. 2006. Direct determination of single nucleotide polymorphism haplotype of NFKBIL1 promoter polymorphism by DNA conformation analysis and its application to association study of chronic inflammatory diseases. Hum. Immunol. 67: 363-373.
7. Greetham, D., et al. 2007. Functional characterization of NFκB inhibitor-like protein 1 (NFκBIL1), a candidate susceptibility gene for rheumatoid arthritis. Hum. Mol. Genet. 16: 3027-3036.

CHROMOSOMAL LOCATION

Genetic locus: NFKBIL1 (human) mapping to 6p21.33.

SOURCE

NFKBIL1 (C-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 220-246 of NFKBIL1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

NFKBIL1 (C-5) is recommended for detection of NFKBIL1 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NFKBIL1 siRNA (h): sc-95606, NFKBIL1 shRNA Plasmid (h): sc-95606-SH and NFKBIL1 shRNA (h) Lentiviral Particles: sc-95606-V.

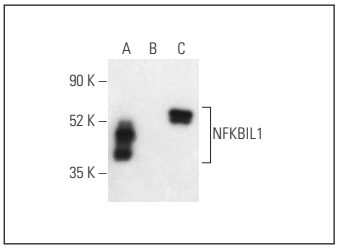
Molecular Weight of NFKBIL1: 43 kDa.

Positive Controls: NFKBIL1 (h): 293T Lysate: sc-369815.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



NFKBIL1 (C-5): sc-518230. Western blot analysis of NFKBIL1 expression in human recombinant NFKBIL1 fusion protein (**A**), non-transfected: sc-117752 (**B**) and human NFKBIL1 transfected: sc-369815 (**C**) 293T whole cell lysates. Detection reagent used: m-IgGκ BP-HRP: sc-516102.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.