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SANTA CRUZ BIOTECHNOLOGY, INC.

T6BP (h): 293T Lysate: sc-116116

BACKGROUND

Tumor necrosis factor receptor (TNFR)-associated factors (TRAFs) are a family of proteins that are downstream signal transducers of the TNFR superfamily. The T6BP (also designated T6BP and TXBP151) gene encodes a protein, which functions as a Tax1 (human T-cell leukemia virus type I) binding protein 1 and a TRAF6-interacting protein. T6BP interacts with the N-terminal ring finger and zinc finger domains of TRAF6 through its coiled-coil region. IL-1 induces the TRAF6-T6BP complex depending on the presence of the IL-1 receptor-associated kinase (IRAK). Therefore, TRAF6 exists in two different complexes, TRAF6-IRAK or TRAF6-T6BP after IL-1 stimulation. However, T6BP does not play a direct role in the activation of IκB kinases or Jun N-terminal kinase. T6BP also binds to T-cell leukemia virus type-I Tax protein. In NIH/3T3 cells, T6BP can inhibit apoptosis induced by TNF, which in turns causes proteolysis of the T6BP protein. In addition, T6BP can interact with A20, which is a Cys2/Cys2 zinc finger protein induced by a vareity of inflammatory stimuli, to mediate the anti-apoptotic activity of A20.

REFERENCES

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2. Hu, H.M., O'Rourke, K., Boguski, M.S. and Dixit, V.M. 1994. A novel RING finger protein interacts with the cytoplasmic domain of CD40. J. Biol. Chem. 269: 30069-30072.
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4. De Valck D., Jin D.Y., Heyninck K., Van de Craen M., Contreras R., Fiers W., Jeang K.T. and Beyaert R. 1999. The zinc finger protein A20 interacts with a novel anti-apoptotic protein which is cleaved by specific caspases. Oncogene 18: 4182-4190.
5. Ling L. and Goeddel D.V. 2000. T6BP, a TRAF6-interacting protein involved in IL-1 signaling. Prot. Nat. Acad. Sci. USA 97: 9567-9572.

CHROMOSOMAL LOCATION

Genetic locus: TAX1BP1 (human) mapping to 7p15.2.

PRODUCT

T6BP (h): 293T Lysate represents a lysate of human T6BP transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

T6BP (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive T6BP antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.