

## T6BP (N-18): sc-15273

### 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 I $\kappa$ B 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 turn causes proteolysis of the T6BP protein. In addition, T6BP can interact with A20, which is a Cys2/Cys2 zinc finger protein induced by a variety of inflammatory stimuli, to mediate the anti-apoptotic activity of A20.

### REFERENCES

1. Rothe, M., Wong, S.C., Henzel, W.J. and Goeddel, D.V. 1994. A novel family of putative signal transducers associated with the cytoplasmic domain of the 75 kDa tumor necrosis factor receptor. *Cell* 78: 681-692.
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.
3. Cheng, G., Cleary, A.M., Ye, Z.S., Hong, D.I., Lederman, S. and Baltimore, D. 1995. Involvement of CRAF1, a relative of TRAF, in CD40 signaling. *Science* 267: 1494-1498.
4. De Valck D., Jin D.Y., Heynink 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.

### CHROMOSOMAL LOCATION

Genetic locus: TAX1BP1 (human) mapping to 7p15.2; Tax1bp1 (mouse) mapping to 6 B3.

### SOURCE

T6BP (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of T6BP of human origin.

### PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-15273 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### STORAGE

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

### APPLICATIONS

T6BP (N-18) is recommended for detection of T6BP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

T6BP (N-18) is also recommended for detection of T6BP in additional species, including equine, canine and bovine.

Suitable for use as control antibody for T6BP siRNA (h): sc-106831, T6BP siRNA (m): sc-154029, T6BP shRNA Plasmid (h): sc-106831-SH, T6BP shRNA Plasmid (m): sc-154029-SH, T6BP shRNA (h) Lentiviral Particles: sc-106831-V and T6BP shRNA (m) Lentiviral Particles: sc-154029-V.

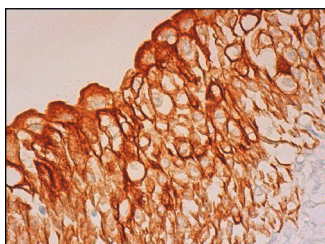
Molecular Weight of T6BP: 86 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

### DATA



T6BP (N-18): sc-15273. Immunoperoxidase staining of formalin fixed, paraffin-embedded human urinary bladder tissue showing cytoplasmic and membrane staining of urothelial cells.

### RESEARCH USE

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

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Try **T6BP (H-6): sc-393143** or **T6BP (3098C2a): sc-81390**, our highly recommended monoclonal alternatives to T6BP (N-18).