

## T6BP (F-16): sc-15274

### 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.

### CHROMOSOMAL LOCATION

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

### SOURCE

T6BP (F-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near 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-15274 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

T6BP (F-16) 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), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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 (F-16) is also recommended for detection of T6BP in additional species, including equine, canine, bovine and avian.

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.

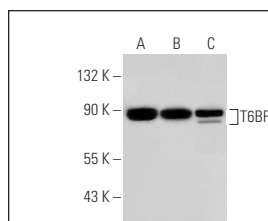
Molecular Weight of T6BP: 86 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, HEK293 whole cell lysate: sc-45136 or THP-1 cell lysate: sc-2238.

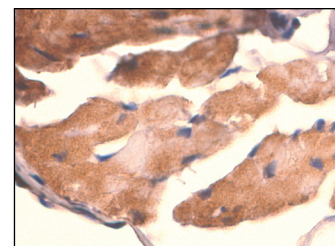
### RECOMMENDED SECONDARY REAGENTS

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<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 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<sup>™</sup> Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz<sup>™</sup>: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

### DATA



T6BP (F-16): sc-15274. Western blot analysis of T6BP expression in HeLa (A), HEK293 (B) and THP-1 (C) whole cell lysates.



T6BP (F-16): sc-15274. Immunoperoxidase staining of formalin fixed, paraffin-embedded mouse lung tissue showing cytoplasmic localization.

### SELECT PRODUCT CITATIONS

1. Ulrich, M., et al. 2007. Tax1-binding protein 1 is expressed in the retina and interacts with the GABA<sub>C</sub> receptor Rho1 subunit. *Biochem. J.* 401: 429-436.

### 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](http://www.scbt.com) or our catalog for detailed protocols and support products.



Try **T6BP (H-6): sc-393143** or **T6BP (3098C2a): sc-81390**, our highly recommended monoclonal alternatives to T6BP (F-16).