**BACKGROUND**

The TAK1 binding proteins, TAB1, TAB2 and TAB3, interact with the MAPKKK TAK1 in response to various stimuli. TAB1 activates TAK1 in TGFβ mediated signaling. TAB1 also plays a central role in a p38α activation pathway that is independent of MAPKK. In response to proinflammatory signals, TAB2 complexes with TRAF6 and TAK1, leading to translocation of the complex from the membrane to the cytosol and the subsequent activation of TAK1. When overexpressed, TAB3 activates both NFκB and AP-1 transcription factors. In response to TNFα or IL-1, TAK1 complexes with TAB1 and TAB2 or with TAB1 and TAB3 to yield two distinct complexes.

**CHROMOSOMAL LOCATION**

Genetic locus: TAB1 (human) mapping to 22q13.1; Map3k7ip1 (mouse) mapping to 15 E1.

**SOURCE**

TAB1 (N-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of TAB1 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-6052 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**APPLICATIONS**

TAB1 (N-19) is recommended for detection of TAB1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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), 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).

TAB1 (N-19) is also recommended for detection of TAB1 in additional species, including canine, porcine and avian.

Suitable for use as control antibody for TAB1 siRNA (h): sc-36600, TAB1 siRNA (m): sc-36601, TAB1 shRNA Plasmid (h): sc-36600-SH, TAB1 shRNA Plasmid (m): sc-36601-SH, TAB1 shRNA (l) Lentiviral Particles: sc-36600-V, and TAB1 shRNA (m) Lentiviral Particles: sc-36601-V.

Molecular Weight of TAB1: 56 kDa.

Positive Controls: TAB1 (h): 23T Lysate: sc-116261, NIH/3T3 whole cell lysate: sc-2210 or K-562 whole cell lysate: sc-2203.

**RESEARCH USE**

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

**PROTOCOLS**

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

**STORAGE**

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

**DATA**

**SELECT PRODUCT CITATIONS**


**Try TAB1 (B-3): sc-166138 or TAB1 (R-32): sc-100869, our highly recommended monoclonal alternatives to TAB1 (N-19).**