TRAF6 polyclonal antibody

Catalog: BS67787 Host: Rabbit Reactivity: Human, Mouse, Rat

BackGround:

TRAFs (TNF receptor-associated factors) are a family of multifunctional adaptor proteins that bind to surface receptors and recruit additional proteins to form multiprotein signaling complexes capable of promoting cellular responses. Members of the TRAF family share a common carboxy-terminal "TRAF domain", which mediates interactions with associated proteins; many also contain amino-terminal Zinc/RING finger motifs. The first TRAFs identified, TRAF1 and TRAF2, were found by virtue of their interactions with the cytoplasmic domain of TNF-receptor 2 (TNFRII). The six known TRAFs (TRAF1-6) act as adaptor proteins for a wide range of cell surface receptors and participate in the regulation of cell survival, proliferation, differentiation, and stress responses.

TRAF6 plays a critical role in innate and adaptive immunity, bone metabolism, and development of certain tissues including the nervous system.TRAF6 deficiency results in osteopetrosis and defective IL-1, CD40, and LPS signaling as well as defects in neuronal development. Unlike other TRAF family members that mediate signaling through TNF, TRAF6 has unique binding activities that result in signaling responses from the interleukin-1 receptor (IL-1R), toll-like receptor, CD40, RANK, and p75 neurotrophin receptor. TRAF6 associates directly with CD40 and RANK, and indirectly with IL-1R/TLR through IRAK. This leads to activation of NF-κB and MAP kinase signaling pathways through downstream association with the TAB/TAK-1 complex. TRAF6 also activates Src family nonreceptor tyrosine kinases leading to Akt activation.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 63 kDa

Swiss-Prot:

Q9Y4K3

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200), IF/ICC (1/50 - 1/200)

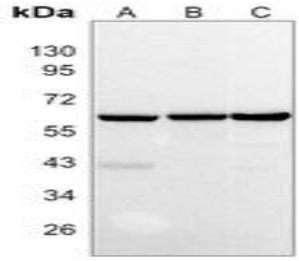
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

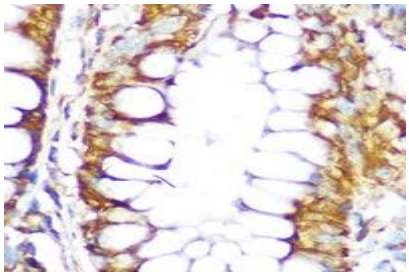
Specificity:

Recognizes endogenous levels of TRAF6 protein.

DATA:



Western blot analysis of TRAF6 expression in Hela (A), mouse brain (B), rat kidney (C) whole cell lysates.



Immunohistochemical analysis of TRAF6 staining in human colon formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact pol-

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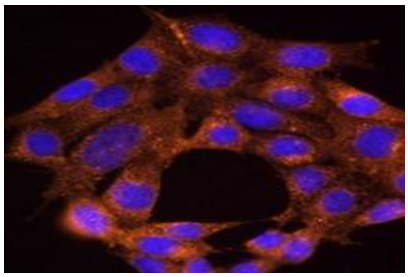
ymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of TRAF6 staining in NIH3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

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

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