

TRAF6 (H-274): sc-7221

BACKGROUND

Tumor necrosis factor receptor-associated factor 6 (TRAF6) regulates adaptive immunity, innate immunity and bone metabolism. TRAF6 is a ubiquitin (Ub) ligase that mediates the activation of protein kinases, such as transforming growth factor β -activated kinase (TAK1) and $\text{I}\kappa\text{B}$ kinase (IKK), by catalyzing the formation of a unique polyubiquitin chain linked through Lys 63 of Ub. TRAF6 is essential for activating NF κB signaling pathway in response to interleukin-1 and Toll-like receptor ligands. The coiled-coil domain of TRAF6 is essential for its auto-ubiquitination and activating NF κB signaling pathway. TRAF6 interacts with various protein kinases including IRAK1/IRAK, SRC and PKC ζ , which provides a link between distinct signaling pathways.

CHROMOSOMAL LOCATION

Genetic locus: TRAF6 (human) mapping to 11p12; Traf6 (mouse) mapping to 2 E2.

SOURCE

TRAF6 (H-274) is a rabbit polyclonal antibody raised against amino acids 1-274 of TRAF6 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.

APPLICATIONS

TRAF6 (H-274) is recommended for detection of TRAF6 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).

TRAF6 (H-274) is also recommended for detection of TRAF6 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for TRAF6 siRNA (h): sc-36717, TRAF6 siRNA (m): sc-36718, TRAF6 shRNA Plasmid (h): sc-36717-SH, TRAF6 shRNA Plasmid (m): sc-36718-SH, TRAF6 shRNA (h) Lentiviral Particles: sc-36717-V and TRAF6 shRNA (m) Lentiviral Particles: sc-36718-V.

Molecular Weight of TRAF6: 60 kDa.

Positive Controls: mouse kidney extract: sc-2255, HeLa whole cell lysate: sc-2200 or WEHI-231 whole cell lysate: sc-2213.

STORAGE

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

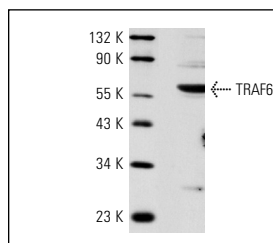
PROTOCOLS

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

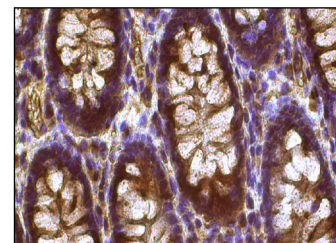
RESEARCH USE

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

DATA



TRAF6 (H-274): sc-7221. Western blot analysis of TRAF6 expression in mouse kidney extract.



TRAF6 (H-274): 7221. Immunoperoxidase staining of formalin fixed, paraffin-embedded human colon tissue showing cytoplasmic staining of glandular cells.

SELECT PRODUCT CITATIONS

- Zhang, Y., et al. 2001. Tumor necrosis factor- α (TNF) stimulates RANKL-induced osteoclastogenesis via coupling of TNF type 1 receptor and RANK signaling pathways. *J. Biol. Chem.* 276: 563-568.
- Li, M., et al. 2010. The effect of PACAP38 on MyD88-mediated signal transduction in ischemia-/hypoxia-induced acute kidney injury. *Am. J. Nephrol.* 32: 522-532.
- Rognant, N., et al. 2010. Hemodynamic responses to acute and gradual renal artery stenosis in pigs. *Am. J. Hypertens.* 23: 1216-1219.
- Lee, H.M., et al. 2011. Autophagy negatively regulates keratinocyte inflammatory responses via scaffolding protein p62/SQSTM1. *J. Immunol.* 186: 1248-1258.
- Motegi, H., et al. 2011. TRAF6 negatively regulates the Jak1-Erk pathway in interleukin-2 signaling. *Genes Cells* 16: 179-189.
- Campo, G.M., et al. 2011. Hyaluronan reduces inflammation in experimental arthritis by modulating TLR-2 and TLR-4 cartilage expression. *Biochim. Biophys. Acta* 1812: 1170-1181.
- Yu, X., et al. 2011. Pattern recognition scavenger receptor CD204 attenuates Toll-like receptor 4-induced NF κB activation by directly inhibiting ubiquitination of tumor necrosis factor (TNF) receptor-associated factor 6. *J. Biol. Chem.* 286: 18795-18806.
- Inomata, M., et al. 2012. Regulation of Toll-like receptor signaling by NDP52-mediated selective autophagy is normally inactivated by A20. *Cell. Mol. Life Sci.* 69: 963-979.



Try **TRAF6 (D-10): sc-8409**, our highly recommended monoclonal alternative to TRAF6 (H-274). Also, for AC, HRP, FITC, PE, Alexa Fluor[®] 488 and Alexa Fluor[®] 647 conjugates, see **TRAF6 (D-10): sc-8409**.