TRAF7 (H-300): sc-98963



BACKGROUND

Tumor necrosis factor receptor-associated factor (TRAF) protein family members are critically involved in pathways triggered by tumor necrosis factor (TNF) receptors and toll/interleukin-1 receptor (TIR)-containing receptors. TRAF7 contains an N-terminal RING and zinc finger domain and localizes to the cytoplasm and nucleus of cells in the M1 phase. TRAF7 activates IKKs-lkB α and MKK3/6-p38 pathways which stimulate toll-like receptor 2 (TLR2) signaling. TLR2 activates innate immunity, induces development of the acquired immunity, and also leads to the harmful inflammatory responses that can occur with infectious diseases. TRAF7 has E3 ubiquitin ligase activity, and it binds to the DNA-binding domain of the oncogenic c-Myb, via the WD40 repeats, and stimulates its sumoylation. This forces c-Myb to stay in the cytosol rather than the nucleus and thereby inhibits its activity. TRAF7 also stimulates MEKK3-mediated AP1 and CHOP activation and induces apoptosis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRAF7 (human) mapping to 16p13.3; Traf7 (mouse) mapping to 17 A3.3.

SOURCE

TRAF7 (H-300) is a rabbit polyclonal antibody raised against amino acids 291-590 mapping within an internal region of TRAF7 of human origin.

PRODUCT

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

APPLICATIONS

TRAF7 (H-300) is recommended for detection of TRAF7 isoforms 1 and 2 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

TRAF7 (H-300) is also recommended for detection of TRAF7 isoforms 1 and 2 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for TRAF7 siRNA (h): sc-61704, TRAF7 siRNA (m): sc-61705, TRAF7 shRNA Plasmid (h): sc-61704-SH, TRAF7 shRNA Plasmid (m): sc-61705-SH, TRAF7 shRNA (h) Lentiviral Particles: sc-61704-V and TRAF7 shRNA (m) Lentiviral Particles: sc-61705-V.

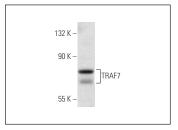
Molecular Weight of TRAF7: 74.6 kDa.

Positive Controls: DU 145 cell lysate: sc-2268.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit lgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit lgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit lgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit lgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



TRAF7 (H-300): sc-98963. Western blot analysis of TRAF7 expression in DU 145 whole cell lysate.

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.