**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 IkB kinase (IKK), by catalyzing the formation of a unique polyubiquitin chain linked through Lys 63 of Ub. TRAF6 is essential for activating NfkB 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 NfkB signaling pathway. TRAF6 interacts with various protein kinases including IRAK1/IRAK, SRC, and PKCζ, 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 (D-10) is a mouse monoclonal antibody raised against amino acids 1-274 mapping at the N-terminus of TRAF6 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRAF6 (D-10) is available conjugated to agarose (sc-8409 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-8409 HRP), 200 µg/ml, for WB, IHC/P and ELISA; to either polycyehrin (sc-8409 PE), fluorescein (sc-8409 FITC), Alexa Fluor® 488 (sc-8409 AF488), Alexa Fluor® 546 (sc-8409 AF546), Alexa Fluor® 594 (sc-8409 AF594) or Alexa Fluor® 647 (sc-8409 AF647), 200 µg/ml, for WB (RGB), IF, IHC/P and FCM; and to either Alexa Fluor® 580 (sc-8409 AF580) or Alexa Fluor® 790 (sc-8409 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

TRAF6 (D-10) 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).


Molecular Weight of TRAF6: 60 kDa.

Positive Controls: WEHI-3 cell lysate: sc-3815, 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.

**DATA**

TRAF6 (D-10): sc-8409. Western blot analysis of TRAF6 expression in HeLa (A) and WEHI-3 (B) whole cell lysates.

TRAF6 (D-10): sc-8409. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization (A). Immunoperoxidase staining of formalin-fixed, paraffin-embedded human tonsil tissue showing cytoplasmic staining of cells in germinal center, cells in non-germinal center and squamous epithelial cells (B).

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

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