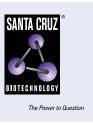
SANTA CRUZ BIOTECHNOLOGY, INC.

TRAF1 (H-3): sc-6253



BACKGROUND

Tumor necrosis factor (TNF)-activated cell signaling is mediated primarily through the TNF receptor 1 (TNF-R1) and, to a lesser extent, TNF-R2. Both TNF receptors are members of the expanding TNF receptor superfamily which includes the Fas antigen and CD40. Potential insight into an understanding of TNF receptor-mediated signaling was provided by the identification of two related proteins, TRAF1 and TRAF2 (for TNF receptor-associated factors 1 and 2, respectively). Both function to form heterodimeric complexes and associate with the cytoplasmic domain of TNF-R2. A third member of this protein family, alternatively designated CD40 bp, CRAF1, LAP1 or TRAF3, has been identified and shown to associate with the cytoplasmic domain of TRAF3 with regions of TRAF1 and TRAF2 define a "TRAF-C" domain that is necessary and sufficient for CD40 binding and homodimerization.

CHROMOSOMAL LOCATION

Genetic locus: TRAF1 (human) mapping to 9q33.2; Traf1 (mouse) mapping to 2 B.

SOURCE

TRAF1 (H-3) is a mouse monoclonal antibody raised against amino acids 173-295 mapping to a central region of TRAF1 of human origin.

PRODUCT

Each vial contains 200 μg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TRAF1 (H-3) is available conjugated to agarose (sc-6253 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-6253 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-6253 PE), fluorescein (sc-6253 FITC), Alexa Fluor* 488 (sc-6253 AF488), Alexa Fluor* 546 (sc-6253 AF546), Alexa Fluor* 594 (sc-6253 AF546), alexa Fluor* 647 (sc-6253 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor* 680 (sc-6253 AF680) or Alexa Fluor* 790 (sc-6253 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TRAF1 (H-3) is recommended for detection of TRAF1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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 flow cytometry (1 μ g per 1 x 10⁶ cells).

Suitable for use as control antibody for TRAF1 siRNA (h): sc-29508, TRAF1 siRNA (m): sc-36710, TRAF1 shRNA Plasmid (h): sc-29508-SH, TRAF1 shRNA Plasmid (m): sc-36710-SH, TRAF1 shRNA (h) Lentiviral Particles: sc-29508-V and TRAF1 shRNA (m) Lentiviral Particles: sc-36710-V.

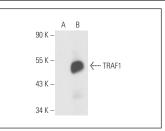
Molecular Weight of TRAF1: 52 kDa.

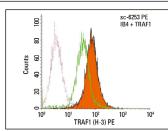
Positive Controls: TRAF1 (m): 293T Lysate: sc-127696, NIH/3T3 whole cell lysate: sc-2210 or NTERA-2 cl.D1 whole cell lysate: sc-364181.

STORAGE

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

DATA





TRAF1 (H-3): sc-6253. Western blot analysis of TRAF1 expression in non-transfected: sc-117752 (A) and mouse TRAF1 transfected: sc-127696 (B) 293T whole cell lysates.

TRAF1 (H-3) PE: sc-6253 PE. Intracellular FCM analysis of methanol permeabilized control (green line histogram) and TRAF1 transfected (solid orange histogram) levels. Dotted pink histogram represents control mouse $\lg G_1$: sc-2866.

SELECT PRODUCT CITATIONS

- Hinz, M., et al. 2001. Constitutive NFκB maintains high expression of a characteristic gene network, including CD40, CD86, and a set of antiapoptotic genes in Hodgkin/Reed-Sternberg cells. Blood 97: 2798-2807.
- Guasparri, I., et al. 2006. The KSHV oncoprotein vFLIP contains a TRAFinteracting motif and requires TRAF2 and TRAF3 for signalling. EMBO Rep. 7: 114-119.
- Rodig, S.J., et al. 2007. Expression of TRAF1 and nuclear c-Rel distinguishes primary mediastinal large cell lymphoma from other types of diffuse large B-cell lymphoma. Am. J. Surg. Pathol. 31: 106-112.
- 4. Ogura, H., et al. 2008. Ectodomain shedding of TNF receptor 1 induced by protein synthesis inhibitors regulates TNF- α -mediated activation of NF κ B and caspase-8. Exp. Cell Res. 314: 1406-1414.
- Benner, M.F., et al. 2009. Diagnostic and prognostic evaluation of phenotypic markers TRAF1, MUM1, BCL2 and CD15 in cutaneous CD30-positive lymphoproliferative disorders. Br. J. Dermatol. 161: 121-127.
- Kondratiev, S., et al. 2011. Aberrant expression of the dendritic cell marker TNFAIP2 by the malignant cells of Hodgkin lymphoma and primary mediastinal large B-cell lymphoma distinguishes these tumor types from morphologically and phenotypically similar lymphomas. Am. J. Surg. Pathol. 35: 1531-1539.
- Kastamoulas, M., et al. 2013. Cytokine effects on cell survival and death of A549 lung carcinoma cells. Cytokine 61: 816-825.
- Wang, F., et al. 2014. The expression level of TRAF1 in human gastric mucosa is related to virulence genotypes of *Helicobacter pylori*. Scand. J. Gastroenterol. 49: 925-932.

RESEARCH USE

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

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