

TRAFD1 (E-23): sc-134108

BACKGROUND

TRAFD1 (TRAF-type zinc finger domain containing 1), also known as FLN29, is a novel 582 amino acid protein that acts as a lipopolysaccharide (LPS)- and interferon (IFN)-inducible negative regulator, and may also play a role in endotoxin tolerance. TRAFD1 also interacts with TRAF6 to negatively regulate toll-like receptor (TLR) signaling. TRAFD1 contains one TRAF-type zinc finger and contains multiple phosphoserine and phosphothreonine residues. The gene encoding TRAFD1 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and trisomy 12p, which causes facial developmental defects and seizure disorders.

REFERENCES

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2. Delgado Carrasco, J., et al. 2001. Achondrogenesis type II-hypochondrogenesis: radiological features. *Case report. An. Esp. Pediatr.* 55: 553-557.
3. Yokoyama, T., et al. 2003. A case of Kniest dysplasia with retinal detachment and the mutation analysis. *Am. J. Ophthalmol.* 136: 1186-1188.
4. Mashima, R., et al. 2005. FLN29, a novel interferon- and LPS-inducible gene acting as a negative regulator of toll-like receptor signaling. *J. Biol. Chem.* 280: 41289-41297.
5. Nousiainen, M., et al. 2006. Phosphoproteome analysis of the human mitotic spindle. *Proc. Natl. Acad. Sci. USA* 103: 5391-5396.
6. Sauve, S., et al. 2008. NMR assignment of the N-terminal TRAF-like RING zinc finger domain of human FLN29. *Biomol NMR Assign* 2: 33-36.
7. Sanada, T., et al. 2008. FLN29 deficiency reveals its negative regulatory role in the Toll-like receptor (TLR) and retinoic acid-inducible gene I (RIG-I)-like helicase signaling pathway. *J. Biol. Chem.* 283: 33858-33864.
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CHROMOSOMAL LOCATION

Genetic locus: TRAFD1 (human) mapping to 12q24.13.

SOURCE

TRAFD1 (E-23) is an affinity purified rabbit polyclonal antibody raised against synthetic TRAFD1 peptide of human origin.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

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

APPLICATIONS

TRAFD1 (E-23) is recommended for detection of TRAFD1 of 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).

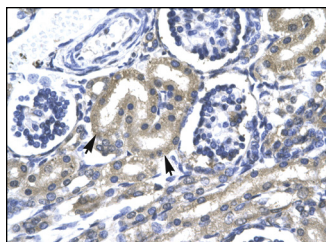
Suitable for use as control antibody for TRAFD1 siRNA (h): sc-63145, TRAFD1 shRNA Plasmid (h): sc-63145-SH and TRAFD1 shRNA (h) Lentiviral Particles: sc-63145-V.

Molecular Weight of TRAFD1: 65 kDa.

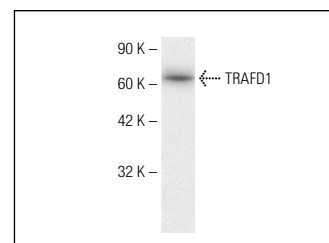
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-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 IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



TRAFD1 (E-23): sc-134108. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human kidney tissue showing nuclear and cytoplasmic localization.



TRAFD1 (E-23): sc-134108. Western blot analysis of TRAFD1 expression in Raji whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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