10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

TRAF3 Antibody (aa323-340)
Rabbit Polyclonal Antibody
Catalog # ALS14600

Specification

TRAF3 Antibody (aa323-340) - Product Information

Application	**WB**
Primary Accession	Q13114
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**64kDa KDa**

TRAF3 Antibody (aa323-340) - Additional Information

Gene ID 7187

Other Names
TNF receptor-associated factor 3, 6.3.2.-, CAP-1, CD40 receptor-associated factor 1, CRAF1, CD40-binding protein, CD40BP, LMP1-associated protein 1, LAP1, TRAF3, CAP1, CRAF1

Target/Specificity
A peptide corresponding to amino acids 323-340 of human TRAF3 was used as the immunogen.

Reconstitution & Storage
Long term: -20°C; Short term: +4°C; Avoid freeze-thaw cycles.

Precautions
TRAF3 Antibody (aa323-340) is for research use only and not for use in diagnostic or therapeutic procedures.

TRAF3 Antibody (aa323-340) - Protein Information

Name TRAF3 (HGNC:12033)

Function
Cytoplasmic E3 ubiquitin ligase that regulates various signaling pathways, such as the NF-kappa-B, mitogen-activated protein kinase (MAPK) and interferon regulatory factor (IRF) pathways, and thus controls a lot of biological processes in both immune and non-immune cell types (PubMed:33148796, PubMed:33608556). In TLR and RLR signaling pathways, acts as an E3 ubiquitin ligase promoting the synthesis of 'Lys-63'-linked polyubiquitin chains on several substrates such as ASC that lead to the activation of the type I interferon response or the inflammasome (PubMed:25847972, PubMed:27980081). Following the activation of certain TLRs such as TLR4, acts as a negative NF-kappa-B regulator, possibly to avoid unregulated inflammatory response, and its degradation via 'Lys-48'-linked polyubiquitination is

required for MAPK activation and production of inflammatory cytokines. Alternatively, when TLR4 orchestrates bacterial expulsion, TRAF3 undergoes 'Lys-33'- linked polyubiquitination and subsequently binds to RALGDS, mobilizing the exocyst complex to rapidly expel intracellular bacteria back for clearance (PubMed:27438768). Acts also as a constitutive negative regulator of the alternative NF-kappa-B pathway, which controls B-cell survival and lymphoid organ development. Required for normal antibody isotype switching from IgM to IgG. Plays a role T-cell dependent immune responses. Down-regulates proteolytic processing of NFKB2, and thereby inhibits non-canonical activation of NF-kappa-B. Promotes ubiquitination and proteasomal degradation of MAP3K14.

Cellular Location
Cytoplasm. Endosome {ECO:0000250|UniProtKB:Q60803} Mitochondrion. Note=Undergoes endocytosis together with TLR4 upon LPS signaling (By similarity). Co-localized to mitochondria with TRIM35 (PubMed:32562145) {ECO:0000250|UniProtKB:Q60803, ECO:0000269|PubMed:32562145}

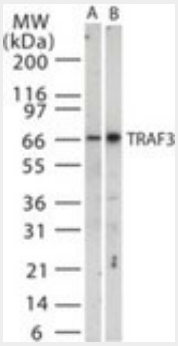
Volume
50 µl

TRAF3 Antibody (aa323-340) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TRAF3 Antibody (aa323-340) - Images



Western blot ofTRAF3in (A) HeLaand (B) NIH 3T3 cell lysate using antibody at 2 ug/ml.

TRAF3 Antibody (aa323-340) - Background

Regulates pathways leading to the activation of NF- kappa-B and MAP kinases, and plays a central role in the regulation of B-cell survival. Part of signaling pathways leading to the production of cytokines and interferon. Required for normal antibody isotype switching from IgM to IgG. Plays a role T-cell dependent immune responses. Plays a role in the regulation of antiviral responses. Is an essential constituent of several E3 ubiquitin-protein ligase complexes. May have E3

ubiquitin-protein ligase activity and promote 'Lys-63'-linked ubiquitination of target proteins. Inhibits activation of NF-kappa-B in response to LTBR stimulation. Inhibits TRAF2-mediated activation of NF-kappa- B. Down-regulates proteolytic processing of NFKB2, and thereby inhibits non-canonical activation of NF-kappa-B. Promotes ubiquitination and proteasomal degradation of MAP3K14.

TRAF3 Antibody (aa323-340) - References

Hu H.M.,et al.J. Biol. Chem. 269:30069-30072(1994).
Mosialos G.,et al.Cell 80:389-399(1995).
Sato T.,et al.FEBS Lett. 358:113-118(1995).
Cheng G.,et al.Science 267:1494-1498(1995).
Li W.B.,et al.Submitted (FEB-2003) to the EMBL/GenBank/DDBJ databases.