

Rabbit TRAF2 Polyclonal Antibody | anti-TRAF2 antibody

Phospho-TRAF2 (Ser11) Antibody

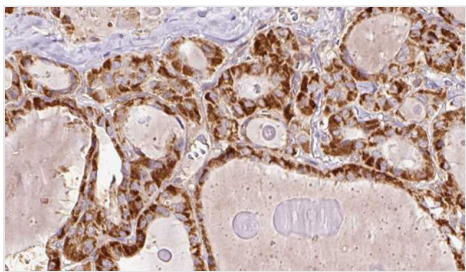
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321410	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

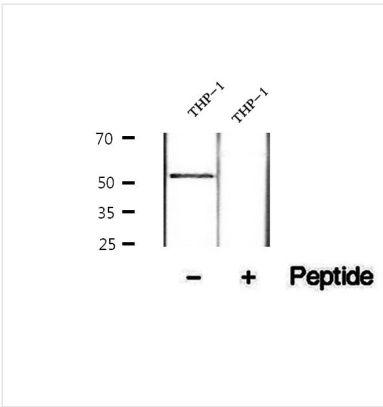
TRAF2; Polyclonal Antibody; Phospho-TRAF2 (Ser11) Antibody; E3 ubiquitin-protein ligase TRAF2; MGC:45012; OTTHUMP00000022625; OTTHUMP00000064745; TNF receptor associated factor 2; TNF receptor-associated factor 2; TNF receptor-associated protein; TRAF 2; TRAF2_HUMAN; TRAP 3; TRAP; TRAP3; Tumor necrosis factor type 2 receptor associated protein 3; Tumor necrosis factor type 2 receptor-associated protein 3; anti-TRAF2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-TRAF2 (Ser11) antibody detects endogenous levels of TRAF2.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	501
Applicable Applications for anti-TRAF2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TRAF2 around the phosphorylation site of Ser11.
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken
Similarity	Pig (92%), Bovine (92%), Horse (92%), Sheep (92%), Dog (92%), Chicken (82%)
Conjugation	Unconjugated
Epitope	Phospho Ser11
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321410 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of THP-1 cells, using Phospho-TRAF2 (Ser11) Antibody.

Related Product Information for anti-TRAF2 antibody

Function: Regulates activation of NF-kappa-B and JNK and plays a central role in the regulation of cell survival and apoptosis. Required for normal antibody isotype switching from IgM to IgG. Has E3 ubiquitin-protein ligase activity and promotes 'Lys-63'-linked ubiquitination of target proteins, such as BIRC3, RIPK1 and TICAM1. Is an essential constituent of several E3 ubiquitin-protein ligase complexes, where it promotes the ubiquitination of target proteins by bringing them into contact with other E3 ubiquitin ligases. Regulates BIRC2 and BIRC3 protein levels by inhibiting their autoubiquitination and subsequent degradation; this does not depend on the TRAF2 RING-type zinc finger domain. Plays a role in mediating activation of NF-kappa-B by EIF2AK2/PKR. In complex with BIRC2 or BIRC3, promotes ubiquitination of IKBKE.

Subunit Structure: Homotrimer (PubMed:8069916). Heterotrimer with TRAF1 (PubMed:8069916). Heterotrimer with TRAF3 (via TRAF domain) (PubMed:15383523, PubMed:20447407). The domain containing the RING-type and the first TRAF-type zinc finger can also form homodimers (in vitro) (PubMed:19810754). Interacts with TNFRSF1B/TNFR2 (PubMed:7639698, PubMed:8069916, PubMed:10206649). Interacts with TNFRSF5/CD40 (PubMed:9718306). Interacts with TNFRSF4, TNFRSF7/CD27, TNFRSF8/CD30, TNFRSF9/CD137, TNFRSF11A/RANK, TNFRSF13B/TACI, TNFRSF14, TNFRSF16/NGFR, TNFRSF17/BCMA, TNFRSF18/AITR, TNFRSF19/TROY, TNFRSF19L/RELT, EDAR and IL15RA (PubMed:8627180, PubMed:9153189, PubMed:9692890, PubMed:9488716, PubMed:9774460, PubMed:9607925, PubMed:9418902, PubMed:10463949, PubMed:10037686, PubMed:10514511, PubMed:10809768, PubMed:10880535, PubMed:11035039, PubMed:10411888). Stimulation of TNF-alpha receptor TNFRSF1A leads to the formation of two distinct signaling complexes. Plasma membrane-bound complex I is composed of TNFRSF1A, TRADD, RIPK1, TRAF2 and BIRC2/c-IAP1 or BIRC3 which interacts with CHUCK/IKK-alpha, IKBKB/IKK-beta and IKBKG/IKK-gamma promoting cell survival (PubMed:21307340, PubMed:18981220). Subsequently, TRADD, RIPK1 and TRAF2 dissociate from TNFRSF1A and form cytoplasmic complex II with FADD and caspase CASP8 promoting cell apoptosis (PubMed:21307340). Interacts with TRADD (PubMed:10892748). Identified in a complex with TNFRSF1A, RIPK1 and IKBKB/IKK-beta (PubMed:18981220). Interacts with RIPK2 (PubMed:9705938). Interacts with BIRC2 and BIRC3 N-terminus; a single BIRC2 or BIRC3 molecule interacts with a heterotrimer formed by TRAF1 and TRAF2, or a TRAF2 homotrimer (PubMed:11907583, PubMed:19506082, PubMed:20447407, PubMed:20385093). Identified in a complex composed of TRAF2, TRAF3, BIRC2 and BIRC3 (By similarity). Interacts with BIRC2; the interaction promotes BIRC2 stability (PubMed:19506082). Interaction with BIRC2 and/or BIRC3 is essential for ubiquitination of IKBKE, degradation of NFKBIA and activation of NF-kappa-B (By similarity). Within complex I, phosphorylated TRAF2 interacts (via 'Lys-63'-linked polyubiquitin chains) with CHUCK/IKK-alpha, IKBKB/IKK-beta, IKBKG/IKK-gamma TAB2, TAB3 and TAK1 in response to TNF-alpha stimulation (PubMed:19150425). Within complex I, interacts with UXT isoform 1 (via TPQE motif); the interaction prevents the recruitment of FADD and CASP8/caspase 8 to complex I (PubMed:21307340). Forms a complex composed of TNFRSF8/CD30 or TNFRSF1B/TNFR2, and TRAF1, TRAF2 and E3 ligase TRAIIP (PubMed:9104814). Within the complex, interacts with TRAIIP; the interaction inhibits TRAF2-mediated NF-kappa B activation (PubMed:9104814). Component of a complex composed of TANK and TBK1 (PubMed:10581243). Interacts with TRPC4AP (By similarity). Interacts with MAP3K1/MEKK1, MAP3K5/ASK1 and MAP3K11/MLK3 in response to TNF-alpha stimulation; the interaction leads to JNK activation (PubMed:10346818, PubMed:19918265, PubMed:9774977). Component of a complex composed of MAP3K14/NIK BIRC3 and TRAF3; the interaction leads to BIRC2/3-mediated ubiquitination of TRAF3 upon CD40 engagement in a TRAF2-dependent manner (By similarity). Interacts with MAP3K14/NIK in response to TNF-alpha stimulation; the interaction leads to NF-kappa B activation (PubMed:9020361). Interacts with PEG3; the interaction may promote TRAF2-mediated NF-kappa B activation (By similarity). Interacts with HIVEP3; the interaction may inhibit TNF-alpha-TRAF2-mediated NF-kappa B and JNK activation (By similarity). Interacts with TANK/ITRAF; the interaction prevents interaction between TNFRSF1B/TNFR2 and TRAF2 (PubMed:8710854). Interacts with deubiquitinating enzyme CYLD; the interaction results in the deubiquitination and inactivation of TRAF2 (PubMed:12917691). Interacts with SIAH2; the interaction leads to TRAF2 ubiquitination and degradation (PubMed:12411493). Interacts with E2 conjugating enzyme UBE2N/Ubc13, E3 ligase ITCH and RNF11 in response to TNF-alpha stimulation (By similarity). Interacts with ubiquitin-editing enzyme TNFAIP3/A20 in response to TNF-alpha stimulation; the interaction promotes TRAF2 dissociation from UBE2N/Ubc13, ITCH, RNF11 and TAX1BP1 and prevents prolonged TRAF-2 ubiquitination (By similarity). Interacts with TAX1BP1 in response to TNF-alpha stimulation; the interaction promotes TRAF2 dissociation from UBE2N/Ubc13 and TNFAIP3/A20, and prevents prolonged TRAF-2 ubiquitination (By similarity). Interacts (via C-terminus) with EIF2AK2/PKR (via the kinase catalytic domain) (PubMed:15121867). Interacts with deubiquitinating enzyme USP48 (PubMed:16214042). Interacts with PTPN2; probably involved in TNF-mediated signaling (PubMed:15696169). Interacts with Toll-like receptor TLR4/3 adapter TICAM1/TRIF; the interaction may promote TICAM1 ubiquitination (PubMed:20047764). Interacts with kinase/endoribonuclease ERN1/IRE1 and DAB2IP in response to ER stress; the interaction requires DAB2IP (By similarity). Interacts with ERN1/IRE1 and TAOK3 in response to ER stress; the interaction may promote TRAF2 phosphorylation (PubMed:11278723). Interacts (via zinc fingers) with DAB2IP (via C-terminus PER domain) in response to TNF-alpha stimulation (PubMed:15310755, PubMed:17389591). Interacts with CASP8AP2/FLASH (By similarity). Interacts with NFATC2IP; the interaction may repress IL-4 production in T cells (By similarity). Interacts with kinase CDK9 (PubMed:9827693). Interacts with sphingosine kinase 1 SPHK1 (PubMed:20577214). Interacts with kinase TNIK (PubMed:10521462). Interacts with TRAFD1 (By similarity). Interacts with DNA phosphodiesterase TDP2 (PubMed:10764746). Interacts with MAVS/IPS1 (PubMed:16153868). Interacts with CARD14 (PubMed:21302310). Interacts with Epstein-Barr virus LMP1/BNFL1 (PubMed:10411888). Interacts with GPS2 (By similarity). Interacts with XPNPEP3 (PubMed:25609706).

Post-translational Modifications: Phosphorylated at several serine residues within the first 128 amino acid residues. Phosphorylated at Thr-117 in response to signaling via TNF and TNFRSF1A. Phosphorylation at Thr-117 is required for 'Lys-63'-linked polyubiquitination, but not for 'Lys-48'-linked polyubiquitination. Phosphorylation at Thr-117 is important for interaction with IKKA and IKKB. activation of IKK and subsequent activation of NF-kappa-B.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22027612
NCBI GeneID	7186
NCBI Accession #	NP_066961.2
NCBI GenBank Nucleotide #	NM_021138.3
UniProt Accession #	Q12933; Q7Z337; Q96NT2; A8K107; B4DPJ7
Molecular Weight	Observed: 53 kDa Predicted: 56 kDa
NCBI Official Full Name	TNF receptor-associated factor 2
NCBI Official Synonym Full Names	TNF receptor associated factor 2
NCBI Official Symbol	TRAF2
NCBI Official Synonym Symbols	TRAP; TRAP3; RNF117; MGC:45012
NCBI Protein Information	TNF receptor-associated factor 2
UniProt Protein Name	TNF receptor-associated factor 2
UniProt Gene Name	TRAF2
UniProt Synonym Gene Names	TRAP3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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