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Datasheet for 200-401-I32

TRAF6 Antibody

Overview

Description:	Anti-TRAF6 (RABBIT) Antibody - 200-401-I32
Item No.:	200-401-I32
Size:	100 µg
Applications:	FC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Anti-TRAF6 Antibody detects human TRAF6. Tumor necrosis factor (TNF) induced signaling is mediated through association of TNF receptor (TNFR) with adaptor proteins, such as TNF receptor associated proteins (TRAFs). TRAFs form a family of cytoplasmic adapter proteins that mediate signal transduction from many members of the TNF-receptor superfamily (e.g. RANK, CD30, CD40, etc.) and the interleukin-1 receptor. The carboxy-terminal region of TRAFs is required for self-association and interaction with receptor cytoplasmic domains following ligand-induced oligomerization. Recent molecular cloning studies have lead to identification of six TRAFs (TRAF1-TRAF6). Recently it has been shown that TRANCE/OPGL activates the antiapoptotic serine/threonine kinase Akt/PKB through a signaling complex involving c-Src and TRAF6. Mice deficient in TNF receptor-associated factor 6 (TRAF6) are osteopetrotic with defects in bone remodeling and tooth eruption due to impaired osteoclast function. Like TRAF2 and TRAF3, TRAF6 is also essential for perinatal and postnatal survival. These findings establish unexpectedly diverse and critical roles for TRAF6 in perinatal and postnatal survival, bone metabolism, LPS, and cytokine signaling. RANK (TRANCE receptor) interacts with various TRAFs through distinct motifs and activates NF-kB via a novel TRAF6 interaction motif, which then activates NIK, thus leading to NF-kB activation. Over-expression of TRAF6 activates JNK, p38, or IKK in the absence of extracellular stimulation. Anti-TRAF6 Antibody is ideal for investigators involved in Toll Like Receptors and signaling, cytokines, growth factors and AKT Signaling.
Synonyms:	RNF85, NF receptor-associated factor 6, E3 ubiquitin-protein ligase TRAF6, Interleukin-1 signal transducer, RING finger protein 85
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TRAF6
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	TRAF6 Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to an internal amino acid sequence in the human protein TRAF6.
Purity/Specificity:	Anti-TRAF6 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-TRAF6 from human and mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-TRAF6 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y4K3 • NCBI - NP_004611.1 • GeneID - 7189

Application Details

Tested Applications:	FC, WB
Application Note:	Anti-TRAF6 Antibody is tested for use in WB and FLOW. Expect a band approximately 54kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	3-5 µg/mL

Formulation

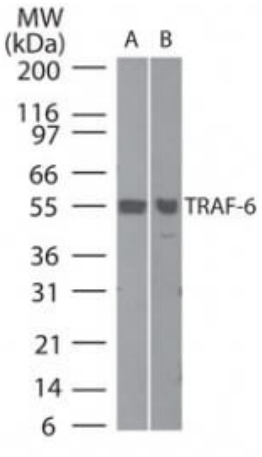
Physical State:	Liquid
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of Rabbit Anti-TRAF6 antibody. Lane A: human thymus cell lysate. Lane B: human testis cell lysate. Primary antibody: TRAF6 at 4 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for TRAF6. Other band (s): none.

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