abcam

Product datasheet

Anti-TRAF6 antibody ab62488

5 References 3 Images

Overview

Product name	Anti-TRAF6 antibody
Description	Rabbit polyclonal to TRAF6
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	A 14 amino acid synthetic peptide from near the C terminus of human TRAF6
Positive control	PC3 cell lysate and K562 cells
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	Ion Exchange Chromatography
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab62488 in the following tested applications.

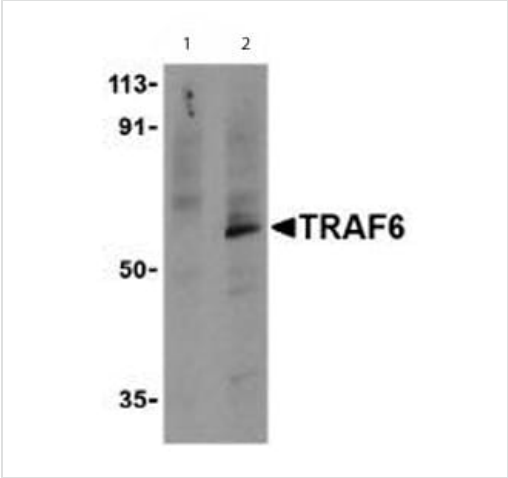
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 63 kDa (predicted molecular weight: 63 kDa).
ICC		Use a concentration of 0.5 - 20 µg/ml.
ICC/IF		Use a concentration of 0.5 - 20 µg/ml.

Target

Function	E3 ubiquitin ligase that, together with UBE2N and UBE2V1, mediates the synthesis of 'Lys-63'-linked-polyubiquitin chains conjugated to proteins, such as IKBKG, AKT1 and AKT2. Also mediates ubiquitination of free/unanchored polyubiquitin chain that leads to MAP3K7 activation. Leads to the activation of NF-kappa-B and JUN. May be essential for the formation of functional osteoclasts. Seems to also play a role in dendritic cells (DCs) maturation and/or activation. Represses c-Myb-mediated transactivation, in B lymphocytes. Adapter protein that seems to play a role in signal transduction initiated via TNF receptor, IL-1 receptor and IL-17 receptor.
Tissue specificity	Expressed in heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the TNF receptor-associated factor family. A subfamily. Contains 1 MATH domain. Contains 1 RING-type zinc finger. Contains 2 TRAF-type zinc fingers.
Domain	The coiled coil domain mediates homo- and hetero-oligomerization. The MATH/TRAF domain binds to receptor cytoplasmic domains.
Post-translational modifications	Sumoylated on Lys-124, Lys-142 and Lys-453 by SUMO1. Polyubiquitinated on Lys-124; after cell stimulation with IL-1-beta or TGF-beta. This ligand-induced cell stimulation leads to dimerization/oligomerization of TRAF6 molecules, followed by auto-ubiquitination which involves UBE2N and UBE2V1 and leads to TRAF6 activation. This 'Lys-63' site-specific poly-ubiquitination appears to be associated with the activation of signaling molecules. Endogenous autoubiquitination occurs only for the cytoplasmic form.
Cellular localization	Cytoplasm. Cytoplasm > cell cortex. Nucleus. Found in the nuclei of some agressive B-cell lymphoma cell lines as well as in the nuclei of both resting and activated T-and B-lymphocytes. Found in punctate nuclear body protein complexes. Ubiquitination may occur in the cytoplasm and sumoylation in the nucleus.

Images



Western blot - Anti-TRAF6 antibody (ab62488)

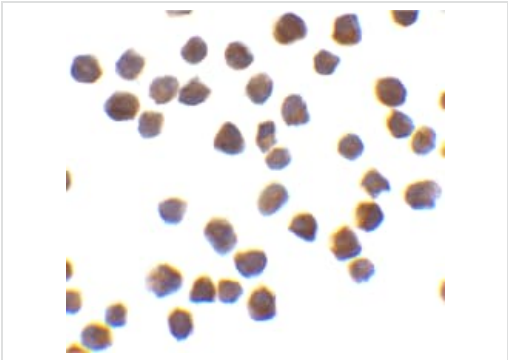
All lanes : Anti-TRAF6 antibody (ab62488) at 1 µg/ml

Lane 1 : PC3 cell lysates, with 1 µg blocking peptide
Lane 2 : PC3 cell lysates, without blocking peptide

Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Anti-rabbit IgG

Predicted band size: 63 kDa
Observed band size: 63 kDa



Immunocytochemistry - Anti-TRAF6 antibody (ab62488)

Immunocytochemistry of TRAF6 in K562 cells with ab62488 antibody at 0.5 µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-TRAF6 antibody (ab62488)

Immunofluorescence of TRAF6 in K562 cells using ab62488 at 20 ug/ml.

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