

Rabbit RhoH Polyclonal Antibody | anti-RhoH antibody

RhoH Antibody

CATALOG # AAA323993	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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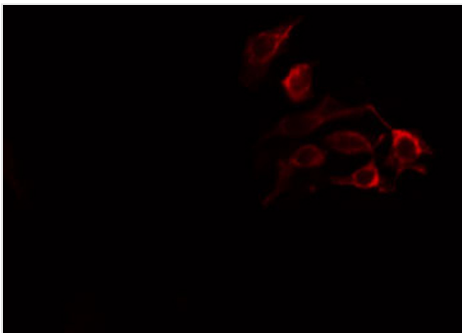
PRODUCT SYNONYMS

RhoH; Polyclonal Antibody; RhoH Antibody; ARHH; GTP binding protein TTF; GTP-binding protein TTF; OTTHUMP00000125213; Ras homolog gene family member H; Rho related GTP binding protein; Rho related GTP binding protein RhoH; Rho-related GTP-binding protein RhoH; RHOH; RHOH_HUMAN; Translocation three four protein; TTF; TTF translocation three four; anti-RhoH antibody

PRODUCT SPECIFICATIONS

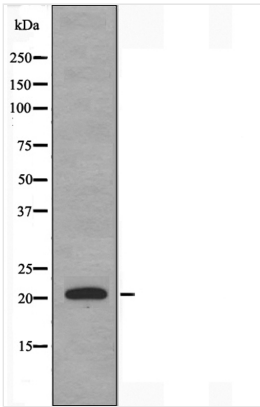
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RhoH antibody detects endogenous levels of total RhoH
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	191
Applicable Applications for anti-RhoH antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Cell Membrane. Co-localizes together with ZAP70 in the immunological synapse.
Tissue Specificity	Expressed only in hematopoietic cells. Present at very high levels in the thymus, less abundant in the spleen, and least abundant in the bone marrow. Expressed at a higher level in the TH1 subtype of T-helper cells than in the TH2 subpopulation. Expressed in neutrophils under inflammatory conditions, such as cystic fibrosis, ulcerative colitis and appendicitis.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA323993 staining HT29 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HT-29 cells, using RhoH antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-RhoH antibody

Function: Negative regulator of hematopoietic progenitor cell proliferation, survival and migration. Critical regulator of thymocyte development and T-cell antigen receptor (TCR) signaling by mediating recruitment and activation of ZAP70. Required for phosphorylation of CD3Z, membrane translocation of ZAP70 and subsequent activation of the ZAP70-mediated pathways. Essential for efficient beta-selection and positive selection by promoting the ZAP70-dependent phosphorylation of the LAT signalosome during pre-TCR and TCR signaling. Crucial for thymocyte maturation during DN3 to DN4 transition and during positive selection. Plays critical roles in mast cell function by facilitating phosphorylation of SYK in Fc epsilon RI-mediated signal transduction. Essential for the phosphorylation of LAT, LCP2, PLCG1 and PLCG2 and for Ca2+ mobilization in mast cells (By similarity). Binds GTP but lacks intrinsic GTPase activity and is resistant to Rho-specific GTPase-activating proteins. Inhibits the activation of NF-kappa-B by TNF and IKKB and the activation of CRK/p38 by TNF. Inhibits activities of RAC1, RHOA and CDC42. Negatively regulates leukotriene production in neutrophils.

Subunit Structure: Interacts with ZAP70 (via SH2 domains) and the interaction is enhanced by its phosphorylation by LCK. Interacts with SYK and the interaction is enhanced by its phosphorylation by FYN (By similarity). Interacts with GDI1 and GDI2. Interacts with PAK5 (By similarity).

Post-translational Modifications: Phosphorylated on tyrosine by LCK. Phosphorylated by FYN. Phosphorylation enhances the interactions with ZAP70 and SYK and is critical for its function in thymocyte development (By similarity).

Similarity: The region involved in interaction with ZAP70 is a non-canonical immunoreceptor tyrosine-based activation motif (ITAM). Belongs to the small GTPase superfamily. Rho family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	507834078
NCBI GeneID	399
NCBI Accession #	NP_001265288.1
NCBI GenBank Nucleotide #	NM_001278359.1
UniProt Accession #	Q15669
Molecular Weight	Observed: 21 kD Predicted: 22 kDa
NCBI Official Full Name	rho-related GTP-binding protein RhoH
NCBI Official Synonym Full Names	ras homolog family member H
NCBI Official Symbol	RHOH
NCBI Official Synonym Symbols	TTF; ARHH

NCBI Protein Information	rho-related GTP-binding protein RhoH
UniProt Protein Name	Rho-related GTP-binding protein RhoH
UniProt Gene Name	RHOH
UniProt Synonym Gene Names	ARHH; TTF

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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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rhoh-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/323993>