

Rabbit RHOB Polyclonal Antibody | anti-RHOB antibody

RHOB Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325088	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RHOB; Polyclonal Antibody; RHOB Antibody; Aplysia RAS-related homolog 6; ARH6; ARHB; H6; MST081; MSTP081; oncogene RHO H6; ras homolog family member B; ras homolog gene family; member B; Rho cDNA clone 6; Rho related GTP binding protein RhoB Precursor; Rho-related GTP-binding protein RhoB; Rhob; RHOB_HUMAN; RHOH6; anti-RHOB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RHOB antibody detects endogenous levels of total RHOB
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	196
Applicable Applications for anti-RHOB antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Late Endosome Membrane. Cell Membrane. Nucleus. Late Endosomal Membrane (geranylgeranylated form). Plasma Membrane (farnesylated form). Also detected at the nuclear margin and in the nucleus.
Tissue Specificity	Up-regulated by DNA damaging agents like H2O2 or ionizing radiation (IR).
Predicted Cross Reactivity	Bovine, Horse, Sheep, Dog, Xenopus
Similarity	Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Xenopus (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells using RHOB antibody.



IHC (Immunohistochemistry)
AAA325088 at 1/100 staining Rat liver 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.



IF (Immunofluorescence)
AAA325088 staining HepG2 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.

ADDITIONAL INFORMATION

Related Product Information for anti-RHOB antibody	Function: Mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Required for genotoxic stress-induced cell death in breast cancer cells. Subunit Structure: Binds ROCK1 and ROCK2 (By similarity). Also binds PKN1/PRK1 (PubMed:9478917). Interacts with ARGGEF3 (PubMed:12221096). Interacts with RTKN (By similarity). Interacts with AKAP13 (PubMed:11546812). Interacts with RIPOR1 (PubMed:27807006). Post-translational Modifications: Prenylation specifies the subcellular location of RHOB. The farnesylated form is localized to the plasma membrane while the geranylgeranylated form is localized to the endosome. (Microbial infection) Glycosylated at Tyr-34 by Photorhabdus asymbiotica toxin PAU_02230. Mono-O-GlcNAcylation by PAU_02230 inhibits downstream signaling by an impaired interaction with diverse regulator and effector proteins of Rho and leads to actin disassembly. Similarity: Belongs to the small GTPase superfamily. Rho family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4757764
NCBI GeneID	388
NCBI Accession #	NP_004031.1
NCBI GenBank Nucleotide #	NM_004040.3
UniProt Accession #	P62745; P01121; Q5U0H6; Q7RTN5; Q7RTR9; Q9CUV7; B2R692
Molecular Weight	Observed: 22 kD Predicted: 23 kDa
NCBI Official Full Name	rho-related GTP-binding protein RhoB
NCBI Official Synonym Full Names	ras homolog family member B
NCBI Official Symbol	RHOB
NCBI Official Synonym Symbols	ARH6; ARHB; RHOH6; MST081; MSTP081

NCBI Protein Information	rho-related GTP-binding protein RhoB
UniProt Protein Name	Rho-related GTP-binding protein RhoB
UniProt Gene Name	RHOB
UniProt Synonym Gene Names	ARH6; ARHB; h6

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/rhob-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325088>