

Rabbit RHOC Polyclonal Antibody | anti-RHOC antibody

RHOC Antibody

CATALOG # AAA325988	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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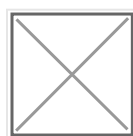
PRODUCT SYNONYMS

RHOC; Polyclonal Antibody; RHOC Antibody; ARH12; ARHA; H12; ras homolog gene family member A; ras homolog gene family member B; ras homolog gene family member C; Rho cDNA clone 12; RHO12; RHOA; RHOA_HUMAN; rhob; rhoc; RHOH12; Small GTP binding protein RhoA; Transforming protein RhoA; anti-RHOC antibody

PRODUCT SPECIFICATIONS

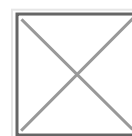
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	RHOC antibody detects endogenous levels of total RHOC
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	193
Applicable Applications for anti-RHOC antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RHOC
Subcellular Location	Cell Membrane
Predicted Cross Reactivity	Pig, Bovine, Horse, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (100%), Dog (100%), Chicken (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



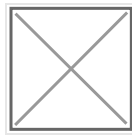
WB (Western Blot)

Western blot analysis of A549 using RHOC antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of extracts from mouse lung, mouse brain, rat brain, using RHOC Antibody.



IHC (Immunohistochemistry)

AAA325988 at 1/100 staining Human liver 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.

ADDITIONAL INFORMATION

Related Product Information for anti-RHOC antibody	Description: Rho family small GTPases, including Rho, Rac and cdc42, act as molecular switches, regulating processes such as cell migration, adhesion, proliferation and differentiation. They are activated by guanine nucleotide exchange factors (GEFs), which catalyze the exchange of bound GDP for GTP, and inhibited by GTPase activating proteins (GAPs), which catalyze the hydrolysis of GTP to GDP. A third level of regulation is provided by the stoichiometric binding of Rho GDP dissociation inhibitor (RhoGDI) (1). RhoA, RhoB and RhoC are highly homologous, but appear to have divergent biological functions. Carboxy-terminal modifications and differences in subcellular localization allow these three proteins to respond to and act on distinct signaling molecules (2, 3). Function: Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Regulates apical junction formation in bronchial epithelial cells. Subunit Structure: Interacts with RTKN (By similarity). Interacts with AKAP13 (PubMed:11546812). Interacts with DIAPH1 (PubMed:15864301). Interacts with PKN2 (PubMed:20974804). Interacts with ROCK1 and ROCK2 (PubMed:8816443). Interacts with ARHGDI (PubMed:20400958). Interacts with RIPOR1 (PubMed:27807006). Post-translational Modifications: (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 #	111494248
NCBI GeneID	389
NCBI Accession #	NP_001036143.1
NCBI GenBank Nucleotide #	NM_001042678.1
UniProt Accession #	P08134; Q6ICN3; B3KSW1
Molecular Weight	Observed: 22 kDa Predicted: 23 kDa
NCBI Official Full Name	rho-related GTP-binding protein RhoC
NCBI Official Synonym Full Names	ras homolog family member C
NCBI Official Symbol	RHOC
NCBI Official Synonym Symbols	H9; ARH9; ARHC; RHOH9
NCBI Protein Information	rho-related GTP-binding protein RhoC
UniProt Protein Name	Rho-related GTP-binding protein RhoC
UniProt Gene Name	RHOC
UniProt Synonym Gene Names	ARH9; ARHC; h9

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.

