

Rabbit RhoA (Ser-188) Polyclonal Antibody

RhoA (Ser-188), phospho-specific

CATALOG # AAA71530	HOST Rabbit	REACTIVITY Human, Rat, Mouse	APPLICATIONS Western Blot, ELISA
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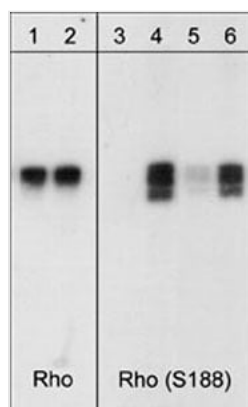
PRODUCT SYNONYMS

RhoA (Ser-188); Polyclonal Antibody; phospho-specific; Gb; p21; anti-RhoA (Ser-188) antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat, Mouse
Clonality	Polyclonal
Specificity	This antibody was affinity purified using phospho-Rho (Ser-188) peptide (without carrier). The antibody detects a RhoA GST fusion protein when phosphorylated with PKA, but does not detect the unphosphorylated recombinant protein.
Purity/Purification	Affinity Purified
Form/Format	Supplied in 100 ul phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-RhoA (Ser-188) antibody	WB (Western Blot), ELISA
Immunogen	Phospho-RhoA (Ser-188) synthetic peptide (coupled to KLH) corresponding to amino acid residues around serine 188 of human RhoA. This peptide sequence is highly conserved in rat and mouse RhoA, but is not found in RhoB or RhoC proteins.
Buffer	Rabbit polyclonal, affinity-purified antibody is supplied in 100ul phosphate-buffer saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide. Store -20 degree C. Stable for 1 year.
Preparation and Storage	Store at -20 degree C.

IMAGES



WB (Western Blot)

Western blot analysis of human RhoA GST fusion recombinant unphosphorylated (lanes 1 & 3) or phosphorylated with PKA (lanes 2, 4, 5 & 6). The blots were probed with anti-Rho (lanes 1 & 2) or with anti-RhoA (Ser-188) (AAA71530; lanes 3-6). The latter antibody was used in the presence of no peptide (lanes 3 & 4), phospho-RhoA (Ser-188) peptide (lane 5), or a non-specific phosphoserine peptide (lane 6).

ADDITIONAL INFORMATION

Related Product Information for anti-RhoA (Ser-188) antibody	Rho (A, B, & C) proteins are members of the Ras superfamily of GTPases. These proteins regulate a variety of cellular functions, including cell cycle progression, cytoskeletal rearrangement, and gene expression. Rho cycles between the active GTP-bound form and an inactive GDPbound form. Interconversion between these forms is controlled by guanine nucleotide exchange factors (GEFs) and GTPase-activating proteins (GAPs). The Rho proteins RhoA, RhoB, and RhoC are highly homologous and contain the consensus amino acid sequences necessary for GDP/GTP-binding and GTPase activity. Post-translational regulation of Rho activity has been shown specifically for RhoA. This Rho protein is phosphorylated in vitro on serine 188 by cAMP- and cGMP-dependent kinases (PKA and PKG). Ser-188 phosphorylation enhances RhoGDI binding and inhibits RhoA-mediated stress fiber formation. Thus, Ser-188 is an important site for negative regulation of RhoA activity.
References	• Lang, P. et al. (1996) EMBO J. 15:510. • Dong, J.M. et al. (1998) J. Biol. Chem. 273(35):22554. • Sawada, N. et al. (2001) Biochem. Biophys. Res. Commun. 280:798. • Ellerbroek, S.M. et al. (2003) J. Biol. Chem. 278(21):19023.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	P06749
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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/rhoa-ser-188-antibody-western-blot-elisa/71530>