Rhoa Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	RhoA, Blocking Peptide
Full Product Name	RhoA Blocking Peptide
Product Gene Name	RhoA blocking peptide
Product Synonym Names	Aplysia ras related homolog 12; ARH12; ARHA; H 12; H12; Oncogene RHO H12; Ras homolog family member A; Ras homolog gene family member A; Rho A; Rho cDNA clone 12; RHO H12; RHO12; RHOA; RHOA_HUMAN; RHOH12; Small GTP binding protein Rho A; Transforming protein Rho A; Transforming protein RhoA
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	RhoA peptide (MBS9617474) is used for blocking the activity of RhoA antibody (MBS9601921)
Molecular Weight	21768 MW
OMIM	165390
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for RhoA blocking peptide	Blocking/Control
Related Product Information for RhoA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of RhoA blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RhoA purchase	MBS9617474 is a blocking peptide targeting RhoA.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RhoA. It may not necessarily be applicable to this product.

NCBI GI #	927669104
NCBI GeneID	387
NCBI Accession #	NP_001300870.1
UniProt Primary Accession #	P61586
UniProt Secondary Accession #	P06749; Q53HM4; Q5U024; Q9UDJ0; Q9UEJ4

UniProt Related Accession #	P61586
GenBank Nucleotide #	NM_001313941.1
NCBI Official Full Name	transforming protein RhoA isoform 1
NCBI Official Synonym Full Names	ras homolog family member A
NCBI Official Symbol	RHOA
NCBI Official Synonym Symbols	ARHA; ARH12; RHO12; RHOH12
UniProt Protein Name	Transforming protein RhoA
UniProt Synonym Protein Names	Rho cDNA clone 12; h12
Protein Family	GTP-binding protein
UniProt Gene Name	RHOA
UniProt Synonym Gene Names	ARH12; ARHA; RHO12; h12
UniProt Entry Name	RHOA_HUMAN
NCBI Protein Information	transforming protein RhoA
NCBI Summary for RhoA	This gene encodes a member of the Rho family of small GTPases, which cycle between inactive GDP-bound and active GTP-bound states and function as molecular switches in signal transduction cascades. Rho proteins promote reorganization of the actin cytoskeleton and regulate cell shape, attachment, and motility. Overexpression of this gene is associated with tumor cell proliferation and metastasis. Multiple alternatively spliced variants have been identified. [provided by RefSeq, Sep 2015]
UniProt Comments for RhoA	RHOA: a small G protein of the Rho family. Regulates a signal transduction pathway linking plasma membrane receptors to the assembly of focal adhesions and actin stress fibers. Controls the reorganization of actins into podosomes. Serves as a target for the yopT cysteine peptidase from Yersinia pestis, vector of the plague, and Yersinia pseudotuberculosis, which causes gastrointestinal disorders. Protein type: G protein, monomeric, Rho; G protein, monomeric; Motility/polarity/chemotaxis; Oncoprotein; G protein Chromosomal Location of Human Ortholog: 3p21.3 Cellular Component: apical junction complex; focal adhesion; cytoskeleton; lamellipodium; plasma membrane; cell cortex; midbody; cytosol; cell junction; cleavage furrow Molecular Function: GTPase activity; protein binding; myosin binding; GTP binding Biological Process: axon guidance; nerve growth factor receptor signaling pathway; viral reproduction; metabolic process; negative chemotaxis; positive regulation of NF-kappaB import into nucleus; regulation of axonogenesis; regulation of cell migration; Rho protein signal transduction; regulation of osteoblast proliferation; substantia nigra development; transforming growth factor beta receptor signaling pathway; small GTPase mediated signal transduction; positive regulation of stress fiber formation; ephrin receptor signaling pathway; negative regulation of axonogenesis; positive regulation of cytokinesis; platelet activation; positive regulation of I-kappaB kinase/NF-kappaB cascade; phosphoinositide-mediated signaling; apical junction assembly; regulation of small GTPase mediated signal transduction; positive regulation of axonogenesis; actin cytoskeleton organization and biogenesis; positive regulation of neuron differentiation; vascular endothelial growth factor receptor signaling pathway; blood coagulation
Research Articles on RhoA	**1.** RhoA expression patterns in circulating leucocytes is a biomarker for the breast cancer risk assessment.
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