ARHGDIA Antibody (C-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	ARHGDIA, Blocking Peptide
Full Product Name	ARHGDIA Antibody (C-term) Blocking Peptide
Product Gene Name	ARHGDIA blocking peptide
Product Synonym Gene Name	GDIA1
Product Synonym Names	Rho GDP-dissociation inhibitor 1; Rho GDI 1; Rho-GDI alpha; ARHGDIA; GDIA1
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 1 mg/ml.
Specificity	The synthetic peptide sequence used to generate the antibody was selected from the C-term region of human ARHGDIA. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.
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	ARHGDIA peptide (MBS9224928) is used for blocking the activity of ARHGDIA antibody (MBS9210614)
Molecular Weight	18,233 Da
OMIM	601925
Cellular Location	Cytoplasm.
Related Product Information for ARHGDIA blocking peptide	Controls Rho proteins homeostasis. Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them. Retains Rho proteins such as CDC42, RAC1 and RHOA in an inactive cytosolic pool, regulating their stability and protecting them from degradation. Actively involved in the recycling and distribution of activated Rho GTPases in the cell, mediates extraction from membranes of both inactive and activated molecules due its exceptionally high affinity for prenylated forms. Through the modulation of Rho proteins, may play a role in cell motility regulation. In glioma cells, inhibits cell migration and invasion by mediating the signals of SEMA5A and PLXNB3 that lead to inactivation of RAC1.
Other Notes	Small volumes of ARHGDIA 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 ARHGDIA purchase	MBS9224928 is a blocking peptide targeting ARHGDIA. Also known as ARHGDIA Antibody (C-term) Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	1707892
NCBI GeneID	396
NCBI Accession #	P52565.3
UniProt Primary Accession #	P52565
UniProt Secondary Accession #	Q6IBM5; A8MXW0; B2R5X1; B4DDD3; B4DUV9
UniProt Related Accession #	P52565
NCBI Official Full Name	Rho GDP-dissociation inhibitor 1

NCBI Official Synonym Full Names	Rho GDP dissociation inhibitor alpha
NCBI Official Symbol	ARHGDIA
NCBI Official Synonym Symbols	GDIA1; NPHS8; RHOGDI; RHOGDI-1; HEL-S-47e
UniProt Protein Name	Rho GDP-dissociation inhibitor 1
UniProt Synonym Protein Names	Rho-GDI alpha
UniProt Gene Name	ARHGDIA
UniProt Synonym Gene Names	GDIA1; Rho GDI 1
UniProt Entry Name	GDIR1_HUMAN
NCBI Protein Information	rho GDP-dissociation inhibitor 1
NCBI Summary for ARHGDIA	This gene encodes a protein that plays a key role in the regulation of signaling through Rho GTPases. The encoded protein inhibits the disassociation of Rho family members from GDP (guanine diphosphate), thereby maintaining these factors in an inactive state. Activity of this protein is important in a variety of cellular processes, and expression of this gene may be altered in tumors. Mutations in this gene have been found in individuals with nephrotic syndrome, type 8. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2014]
UniProt Comments for ARHGDIA	RhoGDI alpha: Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them. Monomer. Forms a heterodimer with RAC1. Interacts with FER. Belongs to the Rho GDI family. Protein type: Apoptosis; Cell development/differentiation; Motility/polarity/chemotaxis; G protein regulator, misc.; Cell adhesion Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: cytoskeleton; cytosol Molecular Function: protein binding Biological Process: cell motility; negative regulation of apoptosis; negative regulation of axonogenesis; negative regulation of cell adhesion; positive regulation of axonogenesis; regulation of Rho protein signal transduction; regulation of small GTPase mediated signal transduction Disease: Nephrotic Syndrome, Type 8
Research Articles on ARHGDIA	**1.** the present study has identified loss of ARHGDIA contributed to the processes of hepatic tumorigenesis, in particular invasion and metastasis
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