Phospho-ARHGEF3 Blocking Peptide – Immobilized antigen affinity chromatography Purity

PRODUCT OVERVIEW

Product Name	ARHGEF3, Blocking Peptide
Full Product Name	Phospho-ARHGEF3 Blocking Peptide
Product Gene Name	ARHGEF3 blocking peptide
Product Synonym Names	Phospho-ARHGEF3
Purity/Purification	Immobilized antigen affinity chromatography
Preparation and Storage	Store at -20 degree C for long term storage
Antibody/Peptide Pairs	ARHGEF3 peptide (MBS5401416) is used for blocking the activity of ARHGEF3 antibody (MBS5401219)
Antibody/Peptide Pairs	ARHGEF3 peptide (MBS5401416) is used for blocking the activity of ARHGEF3 antibody (MBS5401220)
Molecular Weight	59,783 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (56761446..57113336, complement). Location: 3p14.3
OMIM	612115
Immunogen	Synthetic peptide corresponding to amino acids within region 350-410 human Rho-Guanine nucleotide Exchange factor 3 protein
Modification	Phosphorylated
Product Categories/Family for ARHGEF3 blocking peptide	Biomolecule
Applications Tested/Suitable for ARHGEF3 blocking peptide	Immunodepletion, Immunocompetition
Related Product Information for ARHGEF3 blocking peptide	Antigenic Blocking Peptide Phospho-specific Rho-Guanine nucleotide Exchange factor 3 Antibody
Other Notes	Small volumes of ARHGEF3 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 ARHGEF3 purchase	MBS5401416 is a blocking peptide targeting ARHGEF3. Also known as Phospho-ARHGEF3 Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ARHGEF3. It may not necessarily be applicable to this product.

NCBI GI #	190885495
NCBI GeneID	50650
NCBI Accession #	NP_001122087.1
UniProt Primary Accession #	Q9NR81
UniProt Secondary Accession #	Q4FZB6; Q4QQI5; Q4QQQ0; Q59F00; Q6NUN3; Q7Z4U2; Q7Z5T2; Q9H7T4; A8K5U7
UniProt Related Accession #	Q9NR81

GenBank Nucleotide #	NM_001128615.1
NCBI Official Full Name	rho guanine nucleotide exchange factor 3 isoform 1
NCBI Official Synonym Full Names	Rho guanine nucleotide exchange factor (GEF) 3
NCBI Official Symbol	ARHGEF3
NCBI Official Synonym Symbols	GEF3; STA3; XPLN
UniProt Protein Name	Rho guanine nucleotide exchange factor 3
UniProt Synonym Protein Names	Exchange factor found in platelets and leukemic and neuronal tissues
Protein Family	Rho guanine nucleotide exchange factor
UniProt Gene Name	ARHGEF3
UniProt Synonym Gene Names	XPLN
UniProt Entry Name	ARHG3_HUMAN
NCBI Protein Information	rho guanine nucleotide exchange factor 3; RhoGEF protein; 59.8 kDA protein; exchange factor found in platelets and leukemic and neuronal tissues, XPLN
NCBI Summary for ARHGEF3	Rho-like GTPases are involved in a variety of cellular processes, and they are activated by binding GTP and inactivated by conversion of GTP to GDP by their intrinsic GTPase activity. Guanine nucleotide exchange factors (GEFs) accelerate the GTPase activity of Rho GTPases by catalyzing their release of bound GDP. This gene encodes a guanine nucleotide exchange factor, which specifically activates two members of the Rho GTPase family: RHOA and RHOB, both of which have a role in bone cell biology. It has been identified that genetic variation in this gene plays a role in the determination of bone mineral density (BMD), indicating the implication of this gene in postmenopausal osteoporosis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for ARHGEF3	ARHGEF3: Acts as guanine nucleotide exchange factor (GEF) for RhoA and RhoB GTPases. 4 isoforms of the human protein are produced by alternative splicing. Protein type: GAPs, Rac/Rho; Motility/polarity/chemotaxis; GAPs Chromosomal Location of Human Ortholog: 3p14.3 Cellular Component: intracellular; cytosol Molecular Function: Rho guanyl-nucleotide exchange factor activity Biological Process: regulation of small GTPase mediated signal transduction; nerve growth factor receptor signaling pathway; positive regulation of apoptosis; small GTPase mediated signal transduction; Rho protein signal transduction
Research Articles on ARHGEF3	**1.** the association between rs7646054 in ARHGEF3 and bone mineral density observed in Caucasians was not replicated in the chinese samples.
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