CDC42EP3 Antibody (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	CDC42EP3, Blocking Peptide
Full Product Name	CDC42EP3 Antibody (N-term) Blocking Peptide
Product Gene Name	CDC42EP3 blocking peptide
Product Synonym Gene Name	BORG2; CEP3
Product Synonym Names	Cdc42 effector protein 3; Binder of Rho GTPases 2; MSE55-related Cdc42-binding protein; CDC42EP3; BORG2; CEP3
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 N-term region of human CDC42EP3. 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	CDC42EP3 peptide (MBS9227840) is used for blocking the activity of CDC42EP3 antibody (MBS9209018)
Molecular Weight	27,678 Da
OMIM	606133
Cellular Location	Endomembrane system; Peripheral membrane protein. Cytoplasm, cytoskeleton
Tissue Location	Highly expressed in the heart and weakly in the brain.
Related Product Information for CDC42EP3 blocking peptide	Probably involved in the organization of the actin cytoskeleton. May act downstream of CDC42 to induce actin filament assembly leading to cell shape changes. Induces pseudopodia formation in fibroblasts.
Other Notes	Small volumes of CDC42EP3 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 CDC42EP3 purchase	MBS9227840 is a blocking peptide targeting CDC42EP3. Also known as CDC42EP3 Antibody (N-term) Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDC42EP3. It may not necessarily be applicable to this product.

NCBI GI #	19923356
NCBI GeneID	10602
NCBI Accession #	NP_006440
UniProt Primary Accession #	Q9UKI2
UniProt Secondary Accession #	O95353; Q9UQJ0; B2R8S0
UniProt Related Accession #	Q9UKI2
GenBank Nucleotide #	NM_006449.4
NCBI Official Full Name	cdc42 effector protein 3

NCBI Official Synonym Full Names	CDC42 effector protein 3
NCBI Official Symbol	CDC42EP3
NCBI Official Synonym Symbols	UB1; CEP3; BORG2
UniProt Protein Name	Cdc42 effector protein 3
UniProt Synonym Protein Names	Binder of Rho GTPases 2; MSE55-related Cdc42-binding protein
Protein Family	Cdc42 effector protein
UniProt Gene Name	CDC42EP3
UniProt Synonym Gene Names	BORG2; CEP3
UniProt Entry Name	BORG2_HUMAN
NCBI Protein Information	cdc42 effector protein 3
NCBI Summary for CDC42EP3	This gene encodes a member of a small family of guanosine triphosphate (GTP) metabolizing proteins that contain a CRIB (Cdc42, Rac interactive binding) domain. Members of this family of proteins act as effectors of CDC42 function. The encoded protein is involved in actin cytoskeleton re-organization during cell shape changes, including pseudopodia formation. A pseudogene of this gene is found on chromosome 19. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]
UniProt Comments for CDC42EP3	CDC42EP3: Probably involved in the organization of the actin cytoskeleton. May act downstream of CDC42 to induce actin filament assembly leading to cell shape changes. Induces pseudopodia formation in fibroblasts. Belongs to the BORG/CEP family. Protein type: G protein regulator, misc. Chromosomal Location of Human Ortholog: 2p21 Cellular Component: actin cytoskeleton; cytoplasm; cytosol; plasma membrane Molecular Function: cytoskeletal regulatory protein binding; GTP-Rho binding; GTPase activator activity Biological Process: positive regulation of actin filament polymerization; positive regulation of pseudopodium formation; regulation of cell shape; Rho protein signal transduction; signal transduction
Research Articles on CDC42EP3	**1.** The expression of CDC42EP3 mRNA was significantly increased by 19.7% in dorsal prefrontal cortex in patient with schizophrenia.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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