SORBS2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	SORBS2, Blocking Peptide
Full Product Name	SORBS2 Blocking Peptide
Product Gene Name	SORBS2 blocking peptide
Product Synonym Names	Arg binding protein 2; Arg-binding protein 2; Arg/Abl interacting protein 2; Arg/Abl interacting protein; Arg/Abl-interacting protein 2; ArgBP2; KIAA0777; PRO0618; sorbin and SH3 domain containing 2; Sorbin and SH3 domain-containing protein 2; Sorbin; Sorbs2; SRBS2_HUMAN
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	SORBS2 peptide (MBS9621449) is used for blocking the activity of SORBS2 antibody (MBS9611496)
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 SORBS2 blocking peptide	Blocking/Control
Related Product Information for SORBS2 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 SORBS2 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 SORBS2 purchase	MBS9621449 is a blocking peptide targeting SORBS2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SORBS2. It may not necessarily be applicable to this product.

NCBI GI #	224586844
NCBI GeneID	8470
NCBI Accession #	NP_001139142.1
UniProt Primary Accession #	O94875
UniProt Secondary Accession #	A6NEK9; B3KPQ7; B7Z1G5; B7Z3X6; C9JKV9; D3DP62; D3DP63; E9PAS5; E9PAW4; G3XAI0; H7BXR4
UniProt Related Accession #	O94875

GenBank Nucleotide #	NP_001139142.1
NCBI Official Full Name	sorbin and SH3 domain-containing protein 2 isoform 3
NCBI Official Synonym Full Names	sorbin and SH3 domain containing 2
NCBI Official Symbol	SORBS2
NCBI Official Synonym Symbols	ARGBP2; PRO0618
UniProt Protein Name	Sorbin and SH3 domain-containing protein 2
UniProt Synonym Protein Names	Arg/Abl-interacting protein 2; ArgBP2; Sorbin
Protein Family	Sorbin and SH3 domain-containing protein
UniProt Gene Name	SORBS2
UniProt Synonym Gene Names	ARGBP2; KIAA0777; ArgBP2
UniProt Entry Name	SRBS2_HUMAN
NCBI Protein Information	sorbin and SH3 domain-containing protein 2
NCBI Summary for SORBS2	Arg and c-Abl represent the mammalian members of the Abelson family of non-receptor protein-tyrosine kinases. They interact with the Arg/Abl binding proteins via the SH3 domains present in the carboxy end of the latter group of proteins. This gene encodes the sorbin and SH3 domain containing 2 protein. It has three C-terminal SH3 domains and an N-terminal sorbin homology (SoHo) domain that interacts with lipid raft proteins. The subcellular localization of this protein in epithelial and cardiac muscle cells suggests that it functions as an adapter protein to assemble signaling complexes in stress fibers, and that it is a potential link between Abl family kinases and the actin cytoskeleton. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for SORBS2	ArgBP2: Adapter protein that plays a role in the assembling of signaling complexes, being a link between ABL kinases and actin cytoskeleton. Can form complex with ABL1 and CBL, thus promoting ubiquitination and degradation of ABL1 or with AKT1 and PAK1, thus mediating AKT1-mediated activation of PAK1. Isoform 6 increases water and sodium absorption in the intestine and gall-bladder. 7 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 4q35.1 Cellular Component: perinuclear region of cytoplasm; plasma membrane; nucleus; Z disc; actin cytoskeleton Molecular Function: protein domain specific binding; protein binding; structural constituent of cytoskeleton; structural constituent of muscle; metal ion binding; cytoskeletal adaptor activity Biological Process: cell migration; actin filament organization; cell adhesion
Research Articles on SORBS2	**1.** ArgBP2 interaction with alpha-actinin and actin stress fibers inhibits cell migration
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