AP1S2 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	AP1S2, Blocking Peptide
Full Product Name	AP1S2 Peptide - N-terminal region
Product Gene Name	AP1S2 blocking peptide
Product Synonym Gene Name	PGS; DC22; MRX59; MRXS5; MRXSF; MRXS21; SIGMA1B
Sequence	Synthetic peptide located within the following region: RLQKWYVPLS DKEKKKITRE LVQTVLARKP KMCSFLEWRD LKIVYKRYAS
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	AP1S2 peptide (MBS3246738) is used for blocking the activity of AP1S2 antibody (MBS3222024)
Molecular Weight	22 kDa
OMIM	300629
Product Categories/Family for AP1S2 blocking peptide	Peptide
Related Product Information for AP1S2 blocking peptide	This is a synthetic peptide designed for use in combination with anti- AP1S2 Antibody, made Target Description: Adaptor protein complex 1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors. This complex is a heterotetramer composed of two large, one medium, and one small adaptin subunit. The protein encoded by this gene serves as the small subunit of this complex and is a member of the adaptin protein family. Transcript variants encoding different isoforms have been found for this gene.
Other Notes	Small volumes of AP1S2 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 AP1S2 purchase	MBS3246738 is a blocking peptide targeting AP1S2. Also known as AP1S2 Peptide - N-terminal region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AP1S2. It may not necessarily be applicable to this product.

NCBI GI #	22027655
NCBI GeneID	8905
NCBI Accession #	NP_003907.3
UniProt Primary Accession #	P56377
UniProt Related Accession #	P56377
GenBank Nucleotide #	NM_003916.4

NCBI Official Full Name	AP-1 complex subunit sigma-2 isoform 2
NCBI Official Synonym Full Names	adaptor related protein complex 1 subunit sigma 2
NCBI Official Symbol	AP1S2
NCBI Official Synonym Symbols	PGS; DC22; MRX59; MRXS5; MRXSF; MRXS21; SIGMA1B
UniProt Protein Name	AP-1 complex subunit sigma-2
UniProt Synonym Protein Names	Adaptor protein complex AP-1 subunit sigma-1B; Adaptor-related protein complex 1 subunit sigma-1B; Clathrin assembly protein complex 1 sigma-1B small chain; Golgi adaptor HA1/AP1 adaptin sigma-1B subunit; Sigma 1B subunit of AP-1 clathrin; Sigma-adaptin 1B; Sigma1B-adaptin
UniProt Gene Name	AP1S2
UniProt Entry Name	AP1S2_HUMAN
NCBI Protein Information	AP-1 complex subunit sigma-2
NCBI Summary for AP1S2	Adaptor protein complex 1 is found at the cytoplasmic face of coated vesicles located at the Golgi complex, where it mediates both the recruitment of clathrin to the membrane and the recognition of sorting signals within the cytosolic tails of transmembrane receptors. This complex is a heterotetramer composed of two large, one medium, and one small adaptin subunit. The protein encoded by this gene serves as the small subunit of this complex and is a member of the adaptin protein family. Transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2013]
UniProt Comments for AP1S2	AP1S2: Subunit of clathrin-associated adaptor protein complex 1 that plays a role in protein sorting in the late-Golgi/trans-Golgi network (TGN) and/or endosomes. The AP complexes mediate both the recruitment of clathrin to membranes and the recognition of sorting signals within the cytosolic tails of transmembrane cargo molecules. Defects in AP1S2 are the cause of mental retardation X- linked type 59 (MRX59). It is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. In contrast to syndromic or specific X-linked mental retardation which also present with associated physical, neurological and/or psychiatric manifestations, intellectual deficiency is the only primary symptom of non-syndromic X-linked mental retardation. MRX59 consists of a mild-to-profound mental retardation. Other features includes hypotonia early in life and delay in walking. Belongs to the adaptor complexes small subunit family. Chromosomal Location of Human Ortholog: Xp22.2 Cellular Component: Golgi membrane; cytoplasmic vesicle membrane; lysosomal membrane; AP-type membrane coat adaptor complex; coated pit; trans-Golgi network membrane; cytosol Molecular Function: protein transporter activity Biological Process: intracellular protein transport; viral reproduction; antigen processing and presentation of exogenous peptide antigen via MHC class II; post-Golgi vesicle-mediated transport; regulation of defense response to virus by virus Disease: Mental Retardation, X-linked, Syndromic 5
Research Articles on AP1S2	**1.** sigma1B adaptin regulates adipogenesis by mediating the sorting of sortilin in adipose tissue.
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