SAMD4A Blocking Peptide

PRODUCT OVERVIEW

Product Name	SAMD4A, Blocking Peptide
Full Product Name	SAMD4A Peptide
Product Gene Name	SAMD4A blocking peptide
Product Synonym Gene Name	DKFZp434H0350; KIAA1053; SAMD4; SMG; SMGA; Smaug; Smaug1; SMAUG; SMAUG1
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	SAMD4A peptide (MBS3236408) is used for blocking the activity of SAMD4A antibody (MBS3211459)
Molecular Weight	79kDa
OMIM	610747
Product Categories/Family for SAMD4A blocking peptide	Peptide
Applications Tested/Suitable for SAMD4A blocking peptide	Western Blot (WB)
Related Product Information for SAMD4A blocking peptide	This is a synthetic peptide designed for use in combination with anti-SAMD4A antibody made Target Description: Sterile alpha motifs (SAMs) in proteins such as SAMD4A are part of an RNA-binding domain that functions as a posttranscriptional regulator by binding to an RNA sequence motif known as the Smaug recognition element, which was named after the Drosophila Smaug protein.Sterile alpha motifs (SAMs) in proteins such as SAMD4A are part of an RNA-binding domain that functions as a posttranscriptional regulator by binding to an RNA sequence motif known as the Smaug recognition element, which was named after the Drosophila Smaug protein (Baez and Boccaccio, 2005 [PubMed 16221671]).[supplied by OMIM].
Other Notes	Small volumes of SAMD4A 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 SAMD4A purchase	MBS3236408 is a blocking peptide targeting SAMD4A. Also known as SAMD4A Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAMD4A. It may not necessarily be applicable to this product.

NCBI GI #	341865548
NCBI GeneID	23034
NCBI Accession #	NP_056404
UniProt Primary Accession #	Q9UPU9
UniProt Related Accession #	Q9UPU9
GenBank Nucleotide #	NM_015589
NCBI Official Full Name	protein Smaug homolog 1 isoform 1

NCBI Official Synonym Full Names	sterile alpha motif domain containing 4A
NCBI Official Symbol	SAMD4A
NCBI Official Synonym Symbols	SMG; SMGA; SAMD4; SMAUG; SMAUG1
UniProt Protein Name	Protein Smaug homolog 1
UniProt Synonym Protein Names	Sterile alpha motif domain-containing protein 4A
Protein Family	Protein
UniProt Gene Name	SAMD4A
UniProt Synonym Gene Names	KIAA1053; SAMD4; SMAUG1; Smaug 1; hSmaug1
UniProt Entry Name	SMAG1_HUMAN
NCBI Protein Information	protein Smaug homolog 1
NCBI Summary for SAMD4A	Sterile alpha motifs (SAMs) in proteins such as SAMD4A are part of an RNA-binding domain that functions as a posttranscriptional regulator by binding to an RNA sequence motif known as the Smaug recognition element, which was named after the Drosophila Smaug protein (Baez and Boccaccio, 2005 [PubMed 16221671]).[supplied by OMIM, Mar 2008]
UniProt Comments for SAMD4A	Function: Acts as a translational repressor of SRE-containing messengers. Ref.6 Subcellular location: Cytoplasm. Cell projection › dendrite By similarity. Cell junction › synapse › synaptosome By similarity. Note: Enriched in synaptoneurosomes By similarity. Shuttles between the nucleus and the cytoplasm in a CRM1-dependent manner. Colocalizes throughout the cytoplasm in granules with polyadenylated RNAs, PABPC1 and STAU1. Also frequently colocalizes in cytoplasmic stress granule-like foci with ELAVL1, TIA1 and TIAL1. Ref.6 Sequence similarities: Belongs to the SMAUG family.Contains 1 SAM (sterile alpha motif) domain. Sequence caution: The sequence AAH57838.1 differs from that shown. Reason: Intron retention.The sequence AAP97302.1 differs from that shown. Reason: Intron retention.
Research Articles on SAMD4A	**1.** The Smaug1 is expressed during synaptogenesis, and Smaug1 knockdown affected the number and size of synapses, and also provoked an impaired response to repetitive depolarizing stimuli, as indicated by a reduced induction of Arc/Arg3.1.
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