SAMD4A Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SAMD4A, Polyclonal Antibody
Full Product Name	SAMD4A Antibody
Product Gene Name	anti-SAMD4A antibody
Product Synonym Names	SMG; SMGA; SAMD4; SMAUG; SMAUG1
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total SAMD4A protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	79,415 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (55033815..55260033). Location: 14q22.2
OMIM	610747
3D Structure	ModBase 3D Structure for Q9UPU9
Immunogen	Synthetic peptide corresponding to a region derived from internal residues of human sterile alpha motif domain containing 4A
Product Categories/Family for anti-SAMD4A antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SAMD4A antibody	Immunohistochemistry (IHC)
Application Notes for anti-SAMD4A antibody	IHC: 1:25-1:100
Related Product Information for anti-SAMD4A antibody	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
Other Notes	Small volumes of anti-SAMD4A antibody 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	MBS8591230 is an antibody targeting SAMD4A. Also known as SAMD4A Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	111309274
NCBI GeneID	23034
NCBI Accession #	AAI21174.1
UniProt Primary Accession #	Q9UPU9
UniProt Secondary Accession #	Q0VA96; Q6PEW4; A8MPZ5
UniProt Related Accession #	Q9UPU9
NCBI Official Full Name	SAMD4A protein
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; SAM domain-containing protein 4A
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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