# SAMD4A Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | SAMD4A, Polyclonal Antibody |
| **Full Product Name** | SAMD4A Conjugated Antibody |
| **Product Gene Name** | anti-SAMD4A antibody |
| **Product Synonym Names** | SMG; SMGA; SAMD4; SMAUG; SMAUG1 |
| **Clonality** | Polyclonal |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | 0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide |
| **Specificity** | The antibody detects endogenous levels of total SAMD4A protein. |
| **Preparation and Storage** | Store at 4 degree C for 6 months. |
| **Molecular Weight** | 12.3 kDa (110aa) confirmed by MALDI-TOF |
| **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 |
| **Conjugation** | Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750 |
| **Excitation Emission** | AF350: 346nm/442nm |
| **Applications Tested/Suitable for anti-SAMD4A antibody** | Most Applications |
| **Application Notes for anti-SAMD4A antibody** | Suggested Dilution:<br>AF350 conjugated: most applications: 1:50-1:250<br>AF405 conjugated: most applications: 1:50-1:250<br>AF488 conjugated: most applications: 1:50-1:250<br>AF555 conjugated: most applications: 1:50-1:250<br>AF594 conjugated: most applications: 1:50-1:250<br>AF647 conjugated: most applications: 1:50-1:250<br>AF680 conjugated: most applications: 1:50-1:250<br>AF750 conjugated: most applications: 1:50-1:250<br>Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000 |
| **Related Product Information for anti-SAMD4A antibody** | Sterile alpha motifs (SAMouse) 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** | MBS9448327 is an antibody targeting SAMD4A. Also known as SAMD4A Conjugated 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.

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| **NCBI GI #** | 7657532 |
| **NCBI GeneID** | 6277 |
| **NCBI Accession #** | NP_055439 |
| **UniProt Primary Accession #** | Q9UPU9 |
| **UniProt Secondary Accession #** | P06703 |
| **UniProt Related Accession #** | P06703 |
| **GenBank Nucleotide #** | NM_014624.3 |
| **NCBI Official Full Name** | protein S100-A6 |
| **NCBI Official Synonym Full Names** | S100 calcium binding protein A6 |
| **NCBI Official Symbol** | S100A6 |
| **NCBI Official Synonym Symbols** | 2A9; PRA; 5B10; CABP; CACY; S10A6 |
| **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 S100-A6 |
| **NCBI Summary for SAMD4A** | The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in stimulation of Ca2+-dependent insulin release, stimulation of prolactin secretion, and exocytosis. Chromosomal rearrangements and altered expression of this gene have been implicated in melanoma. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for SAMD4A** | Function: Acts as a translational repressor of SRE-containing messengers. Ref.6<br><br>Subcellular location: Cytoplasm. Cell projection › dendrite<br><br>By similarity. Cell junction › synapse › synaptosome<br><br>By similarity. Note: Enriched in synaptoneurosomes<br><br>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<br><br>Sequence similarities: Belongs to the SMAUG family.Contains 1 SAM (sterile alpha motif) domain.<br><br>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 S100A6 interacts with FOR20 and related centrosomal proteins through a conserved N-terminal domain, suggesting a novel Ca(2+)-dependent regulation of centrosomal function. |

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