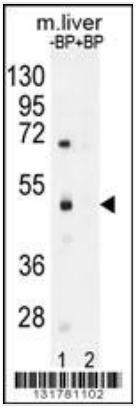
SAMD8 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SAMD8, Polyclonal Antibody
Full Product Name	SAMD8, NT (SAMD8, Sphingomyelin synthase-related protein 1, Sterile alpha motif domain-containing protein 8) (FITC)
Product Gene Name	anti-SAMD8 antibody
Product Synonym Names	SAMD8; Sphingomyelin synthase-related protein 1; Sterile alpha motif domain-containing protein 8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37,609 Da
OMIM	611575
3D Structure	ModBase 3D Structure for Q96LT4
Immunogen	SAMD8 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 45-75 amino acids from the N-terminal region of human SAMD8.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SAMD8 antibody	Antibodies; Enzymes; Synthase
Applications Tested/Suitable for anti-SAMD8 antibody	Western Blot (WB), FLISA
Application Notes for anti-SAMD8 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-SAMD8 antibody	MBS6344923 is an antibody targeting SAMD8. Also known as SAMD8, NT (SAMD8, Sphingomyelin synthase-related protein 1, Sterile alpha motif domain-containing protein 8) (FITC). Reactive in Mouse. Host: Rabbit.
Product References and Citations for anti-SAMD8 antibody	Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006). Barrios-Rodiles, M., et al. Science 307(5715):1621-1625(2005). Huitema, K., et al. EMBO J. 23(1):33-44(2004).
Other Notes	Small volumes of anti-SAMD8 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.



Western Blot (WB) of anti-SAMD8 antibody
Western blot analysis of SAMD8 Antibody (N-term) Pab pre-incubated without(lane 1) and with(lane 2) blocking peptide in mouse liver tissue lysate. SAMD8 Antibody (N-term) (arrow) was detected using the purified Pab.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SAMD8. It may not necessarily be applicable to this product.

NCBI GI #	21389545
NCBI GeneID	142891
NCBI Accession #	NP_653261.1
UniProt Primary Accession #	Q96LT4
UniProt Secondary Accession #	Q5JSC5; Q5JSC8; Q66K52
UniProt Related Accession #	Q96LT4
GenBank Nucleotide #	NM_144660.2
NCBI Official Full Name	sphingomyelin synthase-related protein 1 isoform 2
NCBI Official Synonym Full Names	sterile alpha motif domain containing 8
NCBI Official Symbol	SAMD8
NCBI Official Synonym Symbols	SMSr; HEL-177
UniProt Protein Name	Sphingomyelin synthase-related protein 1
UniProt Synonym Protein Names	Ceramide phosphoethanolamine synthase; CPE synthase; Sterile alpha motif domain-containing protein 8
Protein Family	Sphingomyelin synthase-related protein
UniProt Gene Name	SAMD8
UniProt Synonym Gene Names	SMSr; CPE synthase
UniProt Entry Name	SAMD8_HUMAN
NCBI Protein Information	sphingomyelin synthase-related protein 1

UniProt Comments for SAMD8	SAMD8: Sphingomyelin synthases synthesize sphingolipids through transfer of a phosphatidyl head group on to the primary hydroxyl of ceramide. SAMD8 is an endoplasmic reticulum (ER) transferase that has no sphingomyelin synthase activity but can convert phosphatidylethanolamine (PE) and ceramide to ceramide phosphoethanolamine (CPE) albeit with low product yield. Appears to operate as a ceramide sensor to control ceramide homeostasis in the endoplasmic reticulum rather than a converter of ceramides. Seems to be critical for the integrity of the early secretory pathway. Belongs to the sphingomyelin synthase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell surface; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 10q22.2 Cellular Component: integral to membrane; integral to endoplasmic reticulum membrane Molecular Function: transferase activity Biological Process: ceramide biosynthetic process; sphingomyelin biosynthetic process
Research Articles on SAMD8	**1.** These results indicate a primary role of SMSr in monitoring endoplasmic reticulum ceramide levels.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-mouse-antibody/samd8/6344923