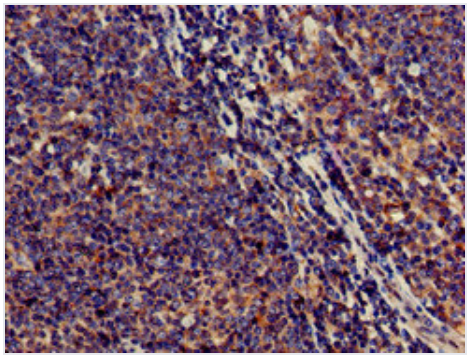
SAMD8 Antibody – Rabbit Polyclonal

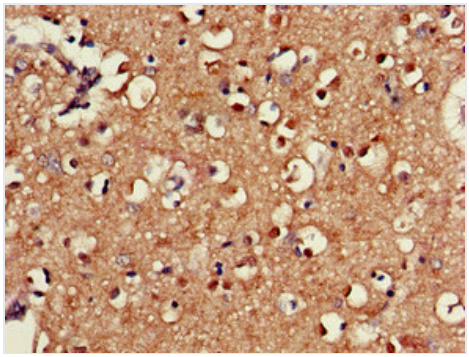
PRODUCT OVERVIEW

Product Name	SAMD8, Polyclonal Antibody
Full Product Name	SAMD8 Antibody
Product Gene Name	anti-SAMD8 antibody
Product Synonym Names	Sphingomyelin synthase-related protein 1; SMSr; Ceramide phosphoethanolamine synthase; CPE synthase; Sterile alpha motif domain-containing protein 8; SAM domain-containing protein 8; SAMD8
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%, Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: SAMD8 (MBS7050743) HRP Conjugated Antibody: SAMD8 (MBS7050744)
Matching Pairs	Unconjugated Antibody: SAMD8 (MBS7050743) FITC Conjugated Antibody: SAMD8 (MBS7050745)
Matching Pairs	Unconjugated Antibody: SAMD8 (MBS7050743) Biotin Conjugated Antibody: SAMD8 (MBS7050746)
Molecular Weight	37,609 Da
OMIM	AK057811 mRNA
3D Structure	ModBase 3D Structure for Q96LT4
Immunogen	Recombinant Human Sphingomyelin synthase-related protein 1 protein (1-152AA)
Preservative	0.03% Proclin 300
Constituents	50% Glycerol, 0.01M PBS, pH 7.4
Conjugation	Non-conjugated
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-139050
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SAMD8 antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-SAMD8 antibody	IHC: 1: 20-1: 200

Related Product Information for anti-SAMD8 antibody	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.
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.
Searchable Terms for SAMD8 purchase	MBS7050743 is an antibody targeting SAMD8. Also known as SAMD8 Antibody. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-SAMD8 antibody
Immunohistochemistry of paraffin-embedded human lymph node tissue using MBS7050743 at dilution of 1:100



Immunohistochemistry (IHC) of anti-SAMD8 antibody
Immunohistochemistry of paraffin-embedded human brain tissue using MBS7050743 at dilution of 1:100

ADDITIONAL DETAILS

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

NCBI GI #	292658773
NCBI GeneID	142891
NCBI Accession #	NP_001167627.1
UniProt Primary Accession #	Q96LT4
UniProt Secondary Accession #	Q5JSC5; Q5JSC8; Q66K52
UniProt Related Accession #	Q96LT4
GenBank Nucleotide #	NM_001174156.1
NCBI Official Full Name	sphingomyelin synthase-related protein 1 isoform 1
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; SAM domain-containing protein 8
Protein Family	Sphingomyelin synthase-related protein
UniProt Gene Name	SAMD8
UniProt Synonym Gene Names	SMSr; CPE synthase; SAM domain-containing protein 8
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 endoplasmic reticulum membrane; integral to Golgi membrane; integral to plasma membrane Molecular Function: ceramide cholinephosphotransferase activity; sphingomyelin synthase activity Biological Process: ceramide biosynthetic process
Research Articles on SAMD8	**1.** These results indicate a primary role of SMSr in monitoring endoplasmic reticulum ceramide levels.
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/samd8/7050743