

Rabbit SGMS2 Polyclonal Antibody | anti-SGMS2 antibody

SGMS2 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA283932	Rabbit	Human, mouse (Predicted Reactivity: Monkey, Rat)	ELISA, Western Blot

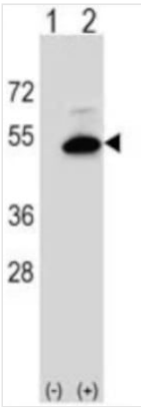
PRODUCT SYNONYMS

SGMS2; Polyclonal Antibody; SGMS2 Antibody (C-term); Phosphatidylcholine:ceramide cholinephosphotransferase 2; Sphingomyelin synthase 2; SMS2; anti-SGMS2 antibody

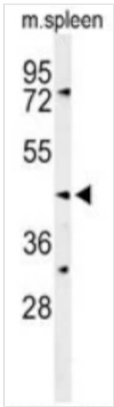
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Monkey, Rat)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	This SGMS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 338-365 amino acids from the C-terminal region of human SGMS2.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	338-365
Sequence Length	365
Applicable Applications for anti-SGMS2 antibody	ELISA, WB (Western Blot)
Function	Sphingomyelin synthases synthesize the sphingolipid, sphingomyelin, through transfer of the phosphatidyl head group, phosphatidylcholine, on to the primary hydroxyl of ceramide (PubMed:). The reaction is bidirectional depending on the respective levels of the sphingolipid and ceramide. Plasma membrane SMS2 can also convert phosphatidylethanolamine (PE) to ceramide phosphatidylethanolamine (CPE). Major form in liver. Required for cell growth in certain cell types. Regulator of cell surface levels of ceramide, an important mediator of signal transduction and apoptosis. Regulation of sphingomyelin (SM) levels at the cell surface affects insulin sensitivity. Involved in the regulation of bone mineralization (PubMed:30779713).
Cellular Location	Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Note=Primarily localized at the plasma membrane with a small fraction at the Golgi apparatus.
Tissue Location	Brain, heart, kidney, liver, muscle and stomach. Also expressed in a number of cell lines such as carcinoma HeLa cells, hepatoma Hep-G2 cells, and colon carcinoma Caco-2 cells
Antigen Region	338-365
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

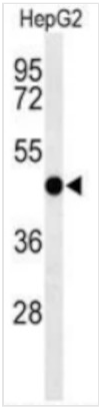
IMAGES



WB (Western Blot)
Western blot analysis of SGMS2 (arrow) using rabbit polyclonal SGMS2 Antibody (C-term)(AAA283932). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the SGMS2 gene.



WB (Western Blot)
Western blot analysis of SGMS2 Antibody (C-term) (AAA283932) in mouse spleen tissue lysates (35ug/lane). SGMS2 (arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of SGMS2 Antibody (C-term) (AAA283932) in HepG2 cell line lysates (35ug/lane). SGMS2 (arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-SGMS2 antibody	Sphingomyelin, a major component of cell and Golgi membranes, is made by the transfer of phosphocholine from phosphatidylcholine onto ceramide, with diacylglycerol as a side product. SGMS2 is an enzyme that catalyzes this reaction primarily at the cell membrane. The synthesis is reversible, and this enzyme can catalyze the reaction in either direction. This protein is required for cell growth.
Product Categories/Family for anti-SGMS2 antibody	Cancer; Metabolism; Signal Transduction
References	Ternes, P., et al. J. Lipid Res. 50(11):2270-2277(2009) Liu, J., et al. Arterioscler. Thromb. Vasc. Biol. 29(6):850-856(2009) Tani, M., et al. Biochem. Biophys. Res. Commun. 381(3):328-332(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	210147407
NCBI GeneID	166929
NCBI Accession #	NP_001129729.1; NP_001129730.1; NP_689834.1
NCBI GenBank Nucleotide #	NM_001136257.1
UniProt Accession #	Q8NHU3; A8K2S9; B2RA61

Molecular Weight	42280
NCBI Official Full Name	phosphatidylcholine:ceramide cholinephosphotransferase 2
NCBI Official Synonym Full Names	sphingomyelin synthase 2
NCBI Official Symbol	SGMS2
NCBI Official Synonym Symbols	SMS2
NCBI Protein Information	phosphatidylcholine:ceramide cholinephosphotransferase 2
UniProt Protein Name	Phosphatidylcholine:ceramide cholinephosphotransferase 2
UniProt Gene Name	SGMS2
UniProt Synonym Gene Names	SMS2
UniProt Entry Name	SMS2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/sgms2-antibody-western-blot-elisa/283932>