

Datasheet for ABIN2785218

anti-Sphingomyelin Synthase 2 antibody (N-Term)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µL
Target:	Sphingomyelin Synthase 2 (SGMS2)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Rabbit, Cow, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sphingomyelin Synthase 2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human SGMS2
Sequence:	KFPLEWWKTG IAFIYAVFNL VLTTVMITVV HERVPPKELS PPLPDKFFDY
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 93%
Characteristics:	This is a rabbit polyclonal antibody against SGMS2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Sphingomyelin Synthase 2 (SGMS2)
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Target Details

Alternative Name:	SGMS2 (SGMS2 Products)
Background:	<p>SGMS2 is a bidirectional lipid cholinephosphotransferase capable of converting phosphatidylcholine (PC) and ceramide to sphingomyelin (SM) and diacylglycerol (DAG) and vice versa. Direction is dependent on the relative concentrations of DAG and ceramide as phosphocholine acceptors. SGMS2 directly and specifically recognizes the choline head group on the substrate. SGMS2 also requires two fatty chains on the choline-P donor molecule in order to be recognized efficiently as a substrate. SGMS2 does not function strictly as a SM synthase. SGMS2 is required for cell growth. Sphingomyelin (SM) is a major component of plasma membranes. It is preferentially concentrated in the outer leaflet and has a role in the formation of lipid rafts. SM synthases (EC 2.7.8.27), such as SGMS2, produce SM in the lumen of the Golgi and on the cell surface through the transfer of phosphocholine from phosphatidylcholine onto ceramide, yielding diacylglycerol as a side product (Huitema et al., 2004 [PubMed 14685263]). [supplied by OMIM]. Sequence Note: removed 3 bases from the 5' end that did not align to the reference genome assembly. PRIMARYREFSEQ_SPAN PRIMARY_IDENTIFIER PRIMARY_SPAN COMP 1-2142 BC041369.2 4-2145</p> <p>Alias Symbols: MGC26963, SMS2</p> <p>Protein Interaction Partner: UBC,</p> <p>Protein Size: 365</p>
Molecular Weight:	42 kDa
Gene ID:	166929
NCBI Accession:	NM_152621 , NP_689834
UniProt:	Q8NHU3

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 365 AA
Restrictions:	For Research Use only

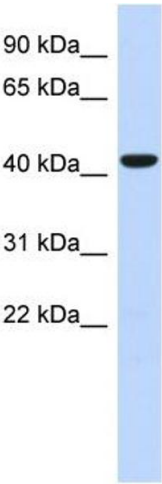
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 %

Handling

	sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-SGMS2 Antibody Titration:

0.2-1 ug/ml

ELISA Titer: 1:312500

Positive Control: Human heart