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Datasheet for ABIN2459622 anti-Sphingomyelin Synthase 2 antibody

Image



Overview

Quantity:	100 µL
Target:	Sphingomyelin Synthase 2 (SGMS2)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sphingomyelin Synthase 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA
Product Details	
Immunogen:	Antibody produced in rabbits immunized with a synthetic peptide corresponding a region of
	human SGMS2.
Purification:	Antibody is purified by peptide affinity chromatography method.
Target Details	
Target:	Sphingomyelin Synthase 2 (SGMS2)
Alternative Name:	SGMS2 (SGMS2 Products)
Background:	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

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Target Details

	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]).
Molecular Weight:	42 kDa
Gene ID:	166929
NCBI Accession:	NP_689834
UniProt:	Q8NHU3

Application Details

Application Notes:	SGMS2 antibody can be used for detection of SGMS2 by ELISA at 1:312500. SGMS2 antibody can be used for detection of SGMS2 by western blot at 1 μ g/mL, and HRP conjugated secondary antibody should be diluted 1:50,000 - 100,000.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Add 50 ?L of distilled water. Final antibody concentration is 1 mg/mL.
Concentration:	1 mg/mL
Buffer:	Antibody is lyophilized in PBS buffer with 2 % sucrose.
Handling Advice:	As with any antibody avoid repeat freeze-thaw cycles.
Storage:	4 °C/-20 °C
Storage Comment:	For short periods of storage (days) store at 4 °C. For longer periods of storage, store SGMS2 antibody at -20 °C.

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Western	Blottin

Image 1.

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