antibodies

Datasheet for ABIN7119418 anti-Sphingomyelin Synthase 1 antibody



Overview

Quantity:	100 µg
Target:	Sphingomyelin Synthase 1 (SGMS1)
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sphingomyelin Synthase 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)
Product Details	
Immunogen:	sphingomyelin synthase 1
lsotype:	lgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE
Target Details	
Target:	Sphingomyelin Synthase 1 (SGMS1)
Alternative Name:	SGMS1 (SGMS1 Products)
Background:	Synonyms:MOB, SMS1, TMEM23 Background:Sphingomyelin synthases synthesize the
	sphingolipid, sphingomyelin, through transfer of the phosphatidyl head group,
	phosphatidylcholine, on to the primary hydroxyl of ceramide. The reaction is bidirectional
	depending on the respective levels of the sphingolipid and ceramide. Golgi apparatus SMS1

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Target Details

directly and specifically recognizes the choline head group on the substrate, requiring two fatty
chains on the choline-P donor molecule in order to be recognized efficiently as a substrate.
Major form in macrophages. Required for cell growth in certain cell types such as HeLa cells.
Suppresses BAX-mediated apoptosis and also prevents cell death in response to stimuli such
as hydrogen peroxide, osmotic stress, elevated temperature and exogenously supplied
sphingolipids. May protect against cell death by reversing the stress-inducible increase in levels
of proapoptotic ceramide.

Molecular Weight:	50 kDa
Gene ID:	259230
UniProt:	Q86VZ5
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	WB: 1:500-1:2000, IHC: 1:20-1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months

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