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Datasheet for ABIN2786225 anti-Sphingomyelin Synthase 1 antibody (Middle Region)

1 Image

1 Publication



Overview

Quantity:	100 μL
Target:	Sphingomyelin Synthase 1 (SGMS1)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Horse, Rabbit, Cow, Dog, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Sphingomyelin Synthase 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of Mouse Sgms1
Sequence:	LTTVMISVVH ERVPPKEVQP PLPDTFFDHF NRVQWAFSIC EINGMILVGL
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 77%
Characteristics:	This is a rabbit polyclonal antibody against Sgms1. It was validated on Western Blot.
Purification:	Affinity Purified
Target Details	

Target:	Sphingomyelin Synthase 1 (SGMS1)
Alternative Name:	Sgms1 (SGMS1 Products)

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Target Details

Background:	Bidirectional lipid cholinephosphotransferase is 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.
	Sgms1 directly and specifically recognizes the choline head group on the substrate. It also
	requires two fatty chains on the choline-P donor molecule in order to be recognized efficiently
	as a substrate. Sgms1 does not function strictly as a SM synthase and 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. Sgms1
	may protect against cell death by reversing the stress-inducible increase in levels of
	proapoptotic ceramide.
	Alias Symbols: 9530058011Rik, Al841905, C80702, MGC30540, Mob, Sms1, Sor1, Tmem23
	Protein Size: 419
Molecular Weight:	46 kDa
Gene ID:	208449
NCBI Accession:	NM_144792, NP_659041
UniProt:	Q8VCQ6
Pathways:	Cellular Response to Molecule of Bacterial Origin

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 419 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 % 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.

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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.
	anquots to prevent neeze-thaw cycles.
Publications	
Product cited in:	Stutchbury, Al-Ejeh, Stillfried, Croucher, Andrews, Irving, Links, Ranson: "Preclinical evaluation of
	213Bi-labeled plasminogen activator inhibitor type 2 in an orthotopic murine xenogenic model

2007) (PubMed).

Images

