

ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SMPD1 / Acid Sphingomyelinase
Tested Reactivity	Hu
Predict Reactivity	Bov
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SMPD1 / Acid Sphingomyelinase
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 391-419 of Human SMPD1 / Acid Sphingomyelinase.
Conjugation	Un-conjugated
Alternate Names	aSMase; EC 3.1.4.12; NPD; ASMASE; Sphingomyelin phosphodiesterase; Acid sphingomyelinase; ASM

Application Instructions

Application table	Application	Dilution
	FACS	1:10 - 1:50
	IHC-P	1:10 - 1:50
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Human cerebellum	

Properties

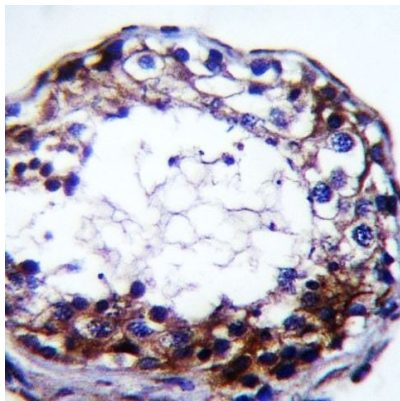
Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

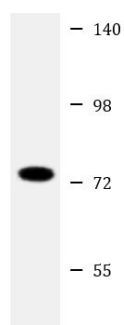
Gene Symbol	SMPD1
Gene Full Name	sphingomyelin phosphodiesterase 1, acid lysosomal
Background	The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick disease type A (NPA) and Niemann-Pick disease type B (NPB). Multiple transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2010]
Function	Converts sphingomyelin to ceramide. Also has phospholipase C activities toward 1,2-diacylglycerolphosphocholine and 1,2-diacylglycerolphosphoglycerol. Isoform 2 and isoform 3 have lost catalytic activity. [UniProt]
Calculated Mw	70 kDa
Cellular Localization	Lysosome. Secreted. [UniProt]

Images



ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody IHC-P image

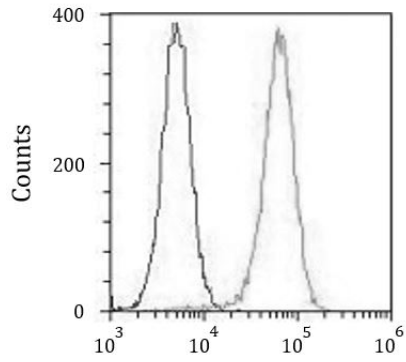
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human testis stained with ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody.



Human cerebellum

ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody WB image

Western blot: 20 µg of Human cerebellum lysate stained with ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody at 1:2000 dilution.



ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody FACS image

Flow Cytometry: K562 cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions and stained with ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody (right histogram) at 1:25 dilution for 60 min at 37°C, followed by DyLight®488 labelled secondary antibody. Isotype control antibody (left histogram) was Rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Acquisition of > 10000 events was performed.