

## 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	

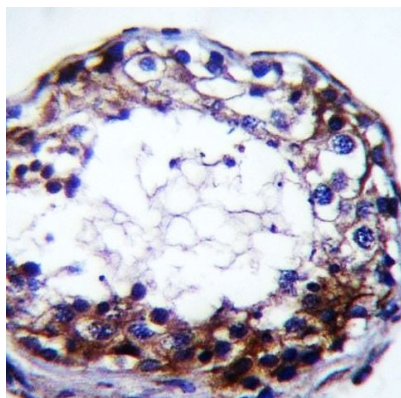
### Properties

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.

## Bioinformation

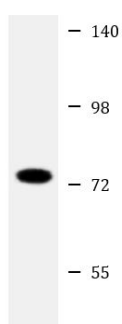
Gene Symbol	SMPD1
Gene Full Name	sphingomyelin phosphodiesterase 1, acid lysosomal
Background	The protein encoded by this gene is a lysosomal acid sphingomyelinase that converts sphingomyelin to ceramide. The encoded protein also has phospholipase C activity. Defects in this gene are a cause of Niemann-Pick 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

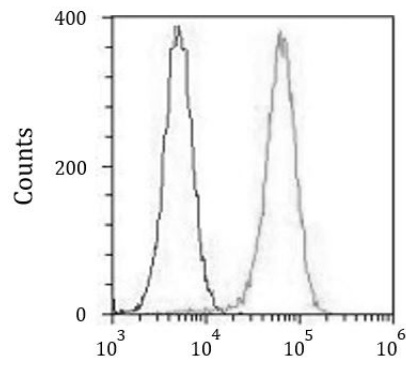
Immunohistochemistry: Formalin-fixed and paraffin-embedded Human testis stained with ARG59530 anti-SMPD1 / Acid Sphingomyelinase antibody.



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  $\mu$ g/ $10^6$  cells) used under the same conditions. Acquisition of > 10000 events was performed.