

SMPD1 polyclonal antibody

Catalog # PAB9751

Size 100 ug

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SMPD1.
Immunogen	A synthetic peptide corresponding to human SMPD1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.08% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay

Gene Info — SMPD1

Entrez GeneID [6609](#)

Gene Name SMPD1

Gene Alias	ASM, NPD
Gene Description	sphingomyelin phosphodiesterase 1, acid lysosomal
Omim ID	257200 607608 607616
Gene Ontology	Hyperlink
Gene Summary	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). Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq]
Other Designations	acid sphingomyelinase

Publication Reference

- [Human acid sphingomyelinase.](#)

Lansmann S, Schuette CG, Bartelsen O, Hoernschemeyer J, Linke T, Weisgerber J, Sandhoff K.
European Journal of Biochemistry 2003 Mar; 270(6):1076.

- [Functional characterization of the N-glycosylation sites of human acid sphingomyelinase by site-directed mutagenesis.](#)

Ferlinz K, Hurwitz R, Moczał H, Lansmann S, Schuchman EH, Sandhoff K.
European Journal of Biochemistry 1997 Jan; 243(1-2):511.

Application: IP, Monkey, COS-1 cells

- [Cloning of a human acid sphingomyelinase cDNA with a new mutation that renders the enzyme inactive.](#)

Ida H, Rennert OM, Eto Y, Chan WY.
Journal of Biochemistry 1993 Jul; 114(1):15.

Pathway

- [Lysosome](#)
- [Metabolic pathways](#)
- [Sphingolipid metabolism](#)

Disease

- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Cystic fibrosis](#)
- [Diabetes Mellitus](#)
- [Dominance](#)
- [Edema](#)
- [Gaucher disease](#)
- [Genetic Diseases](#)
- [Schizophrenia](#)