

Rabbit anti-Human Acid Sphingomyelinase Polyclonal Antibody | anti-SMPD1 antibody

Acid Sphingomyelinase

CATALOG # AAA60506	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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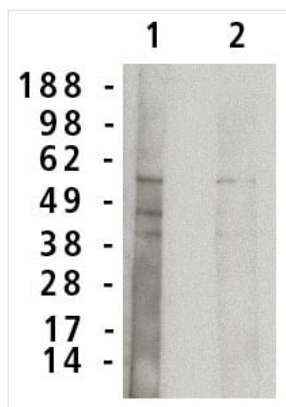
PRODUCT SYNONYMS

Acid Sphingomyelinase; Polyclonal Antibody; aSMase; SMPD1; ASM; Sphingomyelin phosphodiesterase; ASM-1; anti-SMPD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Ammonium Sulfate Precipitation
Form/Format	Provided as solution in phosphate buffered saline with 0.08% sodium azide
Sequence Length	631
Applicable Applications for anti-SMPD1 antibody	ELISA, WB (Western Blot)
Immunogen	Synthetic peptide derived from human acid sphingomyelinase protein.
Preparation and Storage	Product should be stored at -20 degree C. Aliquot to avoid freeze/thaw cycles

IMAGES



WB (Western Blot)

Western blot analysis using acid sphingomyelinase antibody on normal human brain lysate (7 ug/lane). Antibody used at 1 ug/ml (1) and 0.5 ug/ml (2) and detected using mouse anti-rabbit antibody at 1:75k dilution and visualized using Pierce West Femto substrate.

ADDITIONAL INFORMATION

Related Product Information for anti-SMPD1 antibody	Human acid sphingomyelinase (sphingomyelin phosphodiesterase, ASM) is the lysosomal enzyme responsible for the hydrolysis of sphingomyelin to ceramide and phosphocholine. Converts sphingomyelin to ceramide. aSM also has phospholipase C activities toward 1,2-diacylglycerol-phosphocholine and 1,2-diacylglycerol-phosphoglycerol. The enzyme is a membrane-associated glycoprotein with a pH optimum of about 4.5 and a subunit molecular mass of about 72 kDa. In addition AtoS M, two other sphingomyelinases have been identified in man, a Mg ²⁺ -dependent neutral sphingomyelinase found primarily in brain and a Zn ²⁺ -dependent acid sphingomyelinase found primarily in serum. Although it is likely that the acid and neutral sphingomyelinases are coded by different genes, the molecular genetic relationship of these three biochemically distinct sphingomyelinases has not been determined. Understanding the role of these sphingomyelinases in the hydrolysis of sphingomyelin to ceramide will be an important step in the understanding of ceramide as it is further hydrolyzed to sphingosine, a neutral phospholipid which has been implicated in the regulation of protein kinase C-mediated signal transduction. Inherited deficiencies of ASM have been reported in man, deficient ASM activity results in the two major subtypes of Niemann-Pick disease (NPD).
Product Categories/Family for anti-SMPD1 antibody	Polyclonal Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	56117840
NCBI GeneID	6609
NCBI Accession #	NP_000534.3
NCBI GenBank Nucleotide #	NM_000543.4
UniProt Accession #	P17405 ; P17406 ; Q13811 ; Q16837 ; Q16841 ; A8K8M3 ; E9PKS3
NCBI Official Full Name	sphingomyelin phosphodiesterase isoform 1
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 1, acid lysosomal
NCBI Official Symbol	SMPD1
NCBI Official Synonym Symbols	ASM; NPD; ASMASE
NCBI Protein Information	sphingomyelin phosphodiesterase; acid sphingomyelinase
UniProt Protein Name	Sphingomyelin phosphodiesterase
UniProt Gene Name	SMPD1
UniProt Synonym Gene Names	ASM; aSMase
UniProt Entry Name	ASM_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/acid-sphingomyelinase-antibody-western-blot-elisa/60506>