

Rabbit SMPD3 Polyclonal Antibody | anti-SMPD3 antibody

SMPD3 Antibody (N-term)

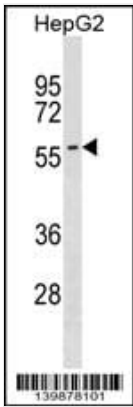
CATALOG # AAA284709	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Mouse, Rat)	APPLICATIONS ELISA, Western Blot
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PRODUCT SYNONYMS

SMPD3; Polyclonal Antibody; SMPD3 Antibody (N-term); Sphingomyelin phosphodiesterase 3; Neutral sphingomyelinase 2; nSMase-2; nSMase2; Neutral sphingomyelinase II; anti-SMPD3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Number	RB39878
Specificity	This SMPD3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 137-165 amino acids from the N-terminal region of human SMPD3.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	137-165
Sequence Length	647
Applicable Applications for anti-SMPD3 antibody	ELISA, WB (Western Blot)
Cellular Location	Golgi apparatus membrane; Lipid-anchor. Cellmembrane; Lipid-anchor. Note=May localizeto detergent- resistant subdomains of Golgimembranes of hypothalamic neurosecretoryneurons (PubMed:10823942). Localizes toplasma membrane in confluentcontact-inhaibited cells (PubMed:15051724)
Tissue Location	Predominantly expressed in brain
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thawcycles.



WB (Western Blot)
SMPD3 Antibody (N-term) (AAA284709) western blot analysis in HepG2 cell line lysates (35ug/lane). This demonstrates the SMPD3 antibody detected the SMPD3 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-SMPD3 antibody	SMPD3 catalyzes the hydrolysis of sphingomyelin to form ceramide and phosphocholine. Ceramide mediates numerous cellular functions, such as apoptosis and growth arrest, and is capable of regulating these 2 cellular events independently. Also hydrolyzes sphingosylphosphocholine. Regulates the cell cycle by acting as a growth suppressor in confluent cells. Probably acts as a regulator of postnatal development and participates in bone and dentin mineralization.
Product Categories/Family for anti-SMPD3 antibody	Neuroscience
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Filosto, S., et al. J. Biol. Chem. 285(14):10213-10222(2010) Maupas-Schwalm, F., et al. Cell. Signal. 21(12):1925-1934(2009) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Ito, H., et al. Biochim. Biophys. Acta 1789 (11-12), 681-690 (2009) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923946
NCBI GeneID	55512
NCBI Accession #	NP_061137.1
NCBI GenBank Nucleotide #	NM_018667.3
UniProt Accession #	Q9NY59; Q2M1S8; B7ZL82
Molecular Weight	71081
NCBI Official Full Name	sphingomyelin phosphodiesterase 3
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)
NCBI Official Symbol	SMPD3
NCBI Official Synonym Symbols	NSMASE2
NCBI Protein Information	sphingomyelin phosphodiesterase 3
UniProt Protein Name	Sphingomyelin phosphodiesterase 3
UniProt Gene Name	SMPD3
UniProt Synonym Gene Names	nSMase-2; nSMase2

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/smpd3-antibody-clone-rb39878-western-blot-elisa/284709>