SMPD3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMPD3, Polyclonal Antibody
Full Product Name	SMPD3
Product Gene Name	anti-SMPD3 antibody
Product Synonym Names	NSMASE2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Affinity purification
Preparation and Storage	Aliquot and store at-20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	71kDa
OMIM	605777
3D Structure	ModBase 3D Structure for Q9NY59
Immunogen	Recombinant protein of human SMPD3
Storage Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SMPD3 antibody	Western Blot (WB)
Application Notes for anti-SMPD3 antibody	WB: 1:1000-1:3000
Related Product Information for anti-SMPD3 antibody	MBS8535299 is an antibody targeting SMPD3. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SMPD3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMPD3. It may not necessarily be applicable to this product.

NCBI GI #	8923946
NCBI GeneID	55512
NCBI Accession #	NP_061137.1
UniProt Primary Accession #	Q9NY59
UniProt Secondary Accession #	Q2M1S8; B7ZL82
UniProt Related Accession #	Q9NY59

GenBank Nucleotide #	NM_018667.3
NCBI Official Full Name	sphingomyelin phosphodiesterase 3
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 3
NCBI Official Symbol	SMPD3
NCBI Official Synonym Symbols	NSMASE2
UniProt Protein Name	Sphingomyelin phosphodiesterase 3
UniProt Synonym Protein Names	Neutral sphingomyelinase 2; nSMase-2; nSMase2; Neutral sphingomyelinase II
Protein Family	Sphingomyelin phosphodiesterase
UniProt Gene Name	SMPD3
UniProt Synonym Gene Names	nSMase-2; nSMase2
NCBI Protein Information	sphingomyelin phosphodiesterase 3
UniProt Comments for 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.
Research Articles on SMPD3	**1.** The enzymes involved in sphingolipid metabolism are expressed abnormally in B cells from SLE patients. TLR signaling induced the abnormal expression of sphingomyelin phosphodiesterase 3 (SMPD3). TLR signaling also induced the transport of SMPD3 from the Golgi apparatus. Furthermore, the dysfunction of SMPD3 enhanced TLR-induced inflammatory response of B cells and macrophages in turn.
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