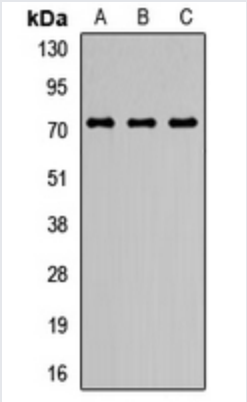
N-SMase2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	N-SMase2, Polyclonal Antibody
Full Product Name	Anti-N-SMase2 Antibody
Product Gene Name	anti-N-SMase2 antibody
Product Synonym Gene Name	SMPD3
Product Synonym Names	Sphingomyelin phosphodiesterase 3; Neutral sphingomyelinase 2; nSMase-2; nSMase2; Neutral sphingomyelinase II
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	Purified by immunogen affinity chromatography
Specificity	Recognizes endogenous levels of N-SMase2 protein.
Preparation and Storage	Upon receipt aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.
OMIM	AJ250460 mRNA
3D Structure	ModBase 3D Structure for Q9NY59
Immunogen	Recombinant full length protein of human N-SMase2
Applications Tested/Suitable for anti-N-SMase2 antibody	Western Blot (WB)
Application Notes for anti-N-SMase2 antibody	WB: 1/500 - 1/2000
Related Product Information for anti-N-SMase2 antibody	MBS8291535 is an antibody targeting N-SMase2. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to N-SMase2
Other Notes	Small volumes of anti-N-SMase2 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.



Western Blot (WB) of anti-N-SMase2 antibody
Western blot analysis of N-SMase2 expression in A549 (A), mouse brain (B), rat brain (C) whole cell lysates.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for N-SMase2. 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
UniProt Gene Name	SMPD3
UniProt Synonym Gene Names	nSMase-2; nSMase2
NCBI Protein Information	sphingomyelin phosphodiesterase 3
UniProt Comments for N-SMase2	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 N-SMase2	**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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