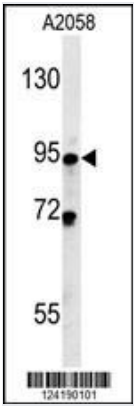
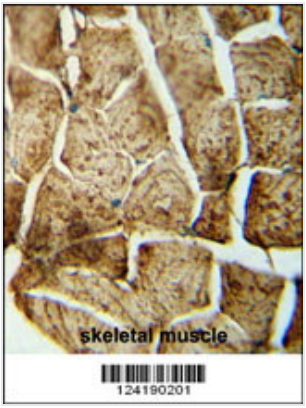
SMPD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMPD4, Polyclonal Antibody
Full Product Name	SMPD4, NT (SMPD4, KIAA1418, Sphingomyelin phosphodiesterase 4, Neutral sphingomyelinase 3, Neutral sphingomyelinase III) (APC)
Product Gene Name	anti-SMPD4 antibody
Product Synonym Names	SMPD4; KIAA1418; Sphingomyelin phosphodiesterase 4; Neutral sphingomyelinase 3; Neutral sphingomyelinase III
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	60,173 Da
OMIM	610457
3D Structure	ModBase 3D Structure for Q9NXE4
Immunogen	SMPD4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 126-155 amino acids from the N-terminal region of human SMPD4.
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-SMPD4 antibody	Antibodies; Enzymes; Phosphodiesterase
Applications Tested/Suitable for anti-SMPD4 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-SMPD4 antibody	IHC: 1:50-100 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-SMPD4 antibody	MBS6349057 is an antibody targeting SMPD4. Also known as SMPD4, NT (SMPD4, KIAA1418, Sphingomyelin phosphodiesterase 4, Neutral sphingomyelinase 3, Neutral sphingomyelinase III) (APC). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-SMPD4 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-SMPD4 antibody
SMPD4 Antibody (N-term) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the SMPD4 antibody detected the SMPD4 protein (arrow).



Immunohistochemistry (IHC) of anti-SMPD4 antibody
SMPD4 antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the SMPD4 antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMPD4. It may not necessarily be applicable to this product.

NCBI GI #	102467484
NCBI GeneID	55627
NCBI Accession #	NP_060221.2
UniProt Primary Accession #	Q9NXE4
UniProt Secondary Accession #	Q6FI76; Q6P1P7; Q6ZT43; Q9H0M2; B4DM23; B4DQ31; B4DRB8; B4DWK7; B4E0L6; E7ESA2; E9PCE6
UniProt Related Accession #	Q9NXE4
GenBank Nucleotide #	NM_017751.4
NCBI Official Full Name	sphingomyelin phosphodiesterase 4 isoform 1
NCBI Official Synonym Full Names	sphingomyelin phosphodiesterase 4
NCBI Official Symbol	SMPD4
NCBI Official Synonym Symbols	NET13; NSMASE3; NSMASE-3
UniProt Protein Name	Sphingomyelin phosphodiesterase 4
UniProt Synonym Protein Names	Neutral sphingomyelinase 3; nSMase-3; nSMase3; Neutral sphingomyelinase III
Protein Family	Sphingomyelin phosphodiesterase
UniProt Gene Name	SMPD4
UniProt Synonym Gene Names	KIAA1418; nSMase-3; nSMase3
UniProt Entry Name	NSMA3_HUMAN
NCBI Protein Information	sphingomyelin phosphodiesterase 4
NCBI Summary for SMPD4	Sphingomyelinases (EC 3.1.4.12), such as SMPD4, catalyze the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide (Krut et al., 2006 [PubMed 16517606]).[supplied by OMIM, Mar 2008]

UniProt Comments for SMPD4	SMPD4: Catalyzes the hydrolysis of membrane sphingomyelin to form phosphorylcholine and ceramide. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - sphingolipid; Endoplasmic reticulum; EC 3.1.4.12; Membrane protein, integral; Phosphodiesterase Chromosomal Location of Human Ortholog: 2q21.1 Cellular Component: Golgi membrane; Golgi apparatus; endoplasmic reticulum membrane; endoplasmic reticulum; integral to membrane; trans-Golgi network Molecular Function: sphingomyelin phosphodiesterase activity; metal ion binding; sphingomyelin phosphodiesterase D activity Biological Process: sphingolipid metabolic process; glycerophospholipid catabolic process; ceramide biosynthetic process; glycosphingolipid metabolic process; sphingomyelin catabolic process
Research Articles on SMPD4	**1.** Observational study of gene-disease association, gene-environment interaction, and pharmacogenomic / toxicogenomic. (HuGE Navigator)
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