ENPP7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ENPP7, Polyclonal Antibody
Full Product Name	ENPP7, ID (ENPP7, Ectonucleotide pyrophosphatase/phosphodiesterase family member 7, Alkaline sphingomyelin phosphodiesterase, Intestinal alkaline sphingomyelinase) (MaxLight 490)
Product Gene Name	anti-ENPP7 antibody
Product Synonym Names	ENPP7; Ectonucleotide pyrophosphatase/phosphodiesterase family member 7; Alkaline sphingomyelin phosphodiesterase; Intestinal alkaline sphingomyelinase
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 MaxLight490.
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: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	458
3D Structure	ModBase 3D Structure for Q6UWV6
Immunogen	ENPP7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between amino acid 290-320 from the Central region of human ENPP7.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-ENPP7 antibody	Antibodies; Enzymes; Phosphodiesterase
Applications Tested/Suitable for anti-ENPP7 antibody	Flow Cytometry (FC/FACS), FLISA, Western Blot (WB)
Application Notes for anti-ENPP7 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ENPP7 antibody	ENPP7 converts sphingomyelin to ceramide. ENPP7 also has phospholipase C activity toward palmitoyl lyso-phosphocholine. ENPP7 does not appear to have nucleotide pyrophosphatase activity.
Product References and Citations for anti-ENPP7 antibody	Wu, J., et al. Biochem. J. 386 (PT 1), 153-160 (2005). Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004). Wu, J., et al. Carcinogenesis 25(8):1327-1333(2004).
Other Notes	Small volumes of anti-ENPP7 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.

Searchable Terms for ENPP7 purchase	MBS6295727 is an antibody targeting ENPP7. Also known as ENPP7, ID (ENPP7, Ectonucleotide pyrophosphatase/phosphodiesterase family member 7, Alkaline sphingomyelin phosphodiesterase, Intestinal alkaline sphingomyelinase) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENPP7. It may not necessarily be applicable to this product.

NCBI GI #	134047772
NCBI GeneID	339221
NCBI Accession #	Q6UWV6.3
UniProt Primary Accession #	Q6UWV6
UniProt Secondary Accession #	Q6ZTS5; Q8IUS8
UniProt Related Accession #	Q6UWV6
NCBI Official Full Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 7
NCBI Official Synonym Full Names	ectonucleotide pyrophosphatase/phosphodiesterase 7
NCBI Official Symbol	ENPP7
NCBI Official Synonym Symbols	NPP7; NPP-7; E-NPP 7; ALK-SMase
UniProt Protein Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 7
UniProt Synonym Protein Names	Alkaline sphingomyelin phosphodiesterase; Intestinal alkaline sphingomyelinase; Alk-SMase
Protein Family	Ectonucleotide pyrophosphatase/phosphodiesterase family
UniProt Gene Name	ENPP7
UniProt Synonym Gene Names	E-NPP 7; NPP-7; Alk-SMase
UniProt Entry Name	ENPP7_HUMAN
NCBI Protein Information	ectonucleotide pyrophosphatase/phosphodiesterase family member 7; ENPP7; alkaline sphingomyelinase; intestinal alkaline sphingomyelinase; alkaline sphingomyelin phosphodiesterase
UniProt Comments for ENPP7	ENPP7: Converts sphingomyelin to ceramide. Also has phospholipase C activity toward palmitoyl lyso-phosphocholine. Does not appear to have nucleotide pyrophosphatase activity. Belongs to the nucleotide pyrophosphatase/phosphodiesterase family. Protein type: Phosphodiesterase; Lipid Metabolism - sphingolipid; Cell cycle regulation; DNA replication; Motility/polarity/chemotaxis; Membrane protein, integral; EC 3.1.4.12 Chromosomal Location of Human Ortholog: 17q25.3 Cellular Component: Golgi apparatus; microvillus; membrane; integral to membrane; plasma membrane Molecular Function: sphingomyelin phosphodiesterase activity Biological Process: negative regulation of cell proliferation; sphingomyelin metabolic process; sphingolipid metabolic process; negative regulation of DNA replication; glycosphingolipid metabolic process; sphingomyelin catabolic process
Research Articles on ENPP7	**1.** The F275A mutation of NPP7 showed impaired catalytic function whereas L107F mutation showed enhanced catalytic activity.
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