10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ENPP7 Rabbit pAb

Catalog # AP96527

Product Information

Application	WB
Primary Accession	Q6UWV6
Other Accession	Q6UWV6
Reactivity	Human
Predicted	Rat, Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51478
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ENPP7
Epitope Specificity	351-458/458
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the nucleotide pyrophosphatase/phosphodiesterase family.
Post-translational modifications	N-glycosylated; required for activity and transport to the plasma membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Converts sphingomyelin to ceramide. Also has phospholipase C activity toward palmitoyl lyso-phosphocholine. Does not appear to have nucleotide pyrophosphatase activity.

Additional Information

Gene ID	339221
Other Names	ALK-SMase; E-NPP 7; NPP-7; NPP7; Gm254; ENPP7_HUMAN; ENPP7; Alkaline sphingomyelin phosphodiesterase; Intestinal alkaline sphingomyelinase (Alk-SMase); 3.1.4.12; ENPP7_RAT; ectonucleotide pyrophosphatase/phosphodiesterase 7; alkaline sphingomyelinase
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

ENPP7 {ECO:0000312|EMBL:AAH41453.2,

Name	ECO:0000312|HGNC:HGNC:23764}
Function	Choline-specific phosphodiesterase that hydrolyzes sphingomyelin releasing the ceramide and phosphocholine and therefore is involved in sphingomyelin digestion, ceramide formation, and fatty acid (FA) absorption in the gastrointestinal tract (PubMed:12671034, PubMed:12885774, PubMed:15205117, PubMed:16255717, PubMed:28292932). Also has phospholipase C activity and can also cleave phosphocholine from palmitoyl lyso-phosphatidylcholine and platelet-activating factor (PAF) leading to its inactivation (PubMed:12885774, PubMed:16255717). Does not have nucleotide pyrophosphatase activity (PubMed:12885774). May promote cholesterol absorption by affecting the levels of sphingomyelin derived from either diet or endogenous sources, in the intestinal lumen (By similarity).
Cellular Location	Cell membrane; Single-pass type I membrane protein. Note=The catalytic domain is released into the extracellular medium when cells are treated with trypsin (PubMed:15205117). Localized at the surface of the microvillar membrane in small intestine enterocytes, and in endosome-like structures situated beneath the microvillar membrane, and in Golgi complex (PubMed:12671034, PubMed:12885774)
Tissue Location	Detected in the colon (at protein level). Expressed in the duodenum, jejunum and liver and at low levels in the ileum Expression was very low in the esophagus, stomach and colon

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.