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ENPP7 Antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15813

Product Information

Application	WB
Primary Accession	Q6UWV6
Other Accession	NM_178543, NP_848638
Reactivity	Human, Mouse, Rat
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	51478

Additional Information

Gene ID	339221
Alias Symbol	ALK-SMase
Other Names	Ectonucleotide pyrophosphatase/phosphodiesterase family member 7, E-NPP 7, NPP-7, 3.1.4.12, Alkaline sphingomyelin phosphodiesterase, Intestinal alkaline sphingomyelinase, Alk-SMase, ENPP7 {ECO:0000312|EMBL:AAH41453.2}
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-ENPP7 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	ENPP7 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

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

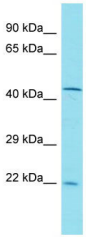
Background

Converts sphingomyelin to ceramide. Also has phospholipase C activity toward palmitoyl lyso-phosphocholine. Does not appear to have nucleotide pyrophosphatase activity.

References

Duan R.-D.,et al.J. Biol. Chem. 278:38528-38536(2003).
Clark H.F.,et al.Genome Res. 13:2265-2270(2003).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).
Duan R.-D.,et al.J. Lipid Res. 44:1241-1250(2003).

Images



Host: Rabbit
Target Name: ENPP7
Sample Tissue: 721_B Whole cell lysate
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Antibody Dilution: 1.0µg/ml

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