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ENPP7 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15813

Specification

ENPP7 Antibody - N-terminal region - 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	**49kDa KDa**

ENPP7 Antibody - N-terminal region - 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.

ENPP7 Antibody - N-terminal region - 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:<a

href="http://www.uniprot.org/citations/28292932" target="_blank">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)

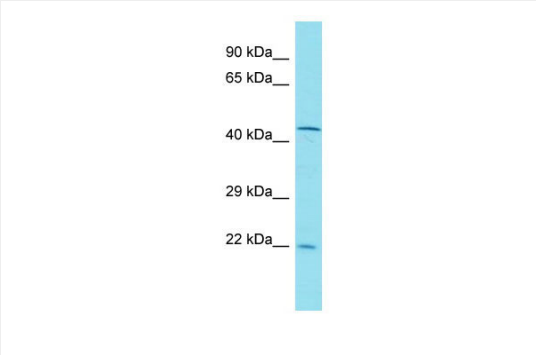
Tissue Location
Detected in the colon (at protein level). Expressed in the duodenum, jejunum and liver and at low levels in the ileum Expression was very low in the esophagus, stomach and colon

ENPP7 Antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ENPP7 Antibody - N-terminal region - Images



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

ENPP7 Antibody - N-terminal region - Background

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

ENPP7 Antibody - N-terminal region - 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).