

ENPP7 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP4923c**Specification**

ENPP7 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q6UWV6](#)**ENPP7 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 339221**Other Names**

Ectonucleotide pyrophosphatase/phosphodiesterase family member 7, E-NPP 7, NPP-7, Alkaline sphingomyelin phosphodiesterase, Intestinal alkaline sphingomyelinase, Alk-SMase, ENPP7 {ECO:0000312|EMBL:AAH414532}

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

ENPP7 Antibody (Center) Blocking Peptide - 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:12885774, PubMed:12671034, PubMed:15205117, PubMed:16255717, PubMed:28292932). Has also phospholipase C activity and can also cleave phosphocholine from palmitoyl lyso-phosphatidylcholine and platelet-activating factor (PAF) leading to its inactivation (PubMed:16255717, PubMed:12885774). 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 (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

ENPP7 Antibody (Center) Blocking Peptide - Images**ENPP7 Antibody (Center) Blocking Peptide - Background**

ENPP7 converts sphingomyelin to ceramide. ENPP7 also has phospholipase C activity toward palmitoyl lyso-phosphocholine. ENPP7 does not appear to have nucleotide pyrophosphatase activity.

ENPP7 Antibody (Center) Blocking Peptide - References

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)