

SMPD2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2822a**Specification**

SMPD2 Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O60906](#)**SMPD2 Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 6610

Other Names

Sphingomyelin phosphodiesterase 2, Lyso-platelet-activating factor-phospholipase C, Lyso-PAF-PLC, Neutral sphingomyelinase, N-SMase, nSMase, SMPD2

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2822a](/products/AP2822a) was selected from the N-term region of human SMPD2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SMPD2 Antibody (N-term) Blocking Peptide - Protein InformationName SMPD2 ([HGNC:11121](#))**Function**

Catalyzes, at least in vitro, the hydrolysis of sphingomyelin to form ceramide and phosphocholine (PubMed: [10608884](http://www.uniprot.org/citations/10608884)). Also hydrolyzes 1-O-alkyl-2-lyso-sn-glycero-3-phosphocholine (lyso-platelet-activating factor) in vivo (PubMed: [10608884](http://www.uniprot.org/citations/10608884)). Also acts on 1-acyl-2-lyso-sn-glycero-3-phosphocholine (lyso-PC) and sphingosylphosphocholine (PubMed: [10608884](http://www.uniprot.org/citations/10608884), PubMed: [14741383](http://www.uniprot.org/citations/14741383)).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:O70572}; Multi-pass membrane protein

SMPD2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SMPD2 Antibody (N-term) Blocking Peptide - Images

SMPD2 Antibody (N-term) Blocking Peptide - Background

SMPD2 converts sphingomyelin to ceramide and hydrolyzes 1-acyl-2-lyso-sn-glycero-3-phosphocholine (lyso-PC) and 1-O-alkyl-2-lyso-sn-glycero-3-phosphocholine (lyso-platelet-activating factor). The physiological substrate seems to be Lyso-PAF.

SMPD2 Antibody (N-term) Blocking Peptide - References

Kim,H.T., J. Dermatol. Sci. 46 (2), 143-146 (2007)Tani,M., J. Biol. Chem. 282 (13), 10047-10056 (2007)Marchesini,N.,J. Biol. Chem. 279 (24), 25101-25111 (2004)