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SMPD2 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP2822c

Specification

SMPD2 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O60906

SMPD2 Antibody (Center) 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 AP2822c was selected from the Center 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 (Center) Blocking Peptide - Protein Information

Name SMPD2 (HGNC:11121)

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

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

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SMPD2 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

SMPD2 Antibody (Center) Blocking Peptide - Images

SMPD2 Antibody (Center) 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 (Center) 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)