

PAFAH2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17398c**Specification**

PAFAH2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q99487](#)**PAFAH2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 5051**Other Names**

Platelet-activating factor acetylhydrolase 2, cytoplasmic, Serine-dependent phospholipase A2, SD-PLA2, hSD-PLA2, PAFAH2

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.

PAFAH2 Antibody (Center) Blocking Peptide - Protein Information**Name** PAFAH2 ([HGNC:8579](#))**Function**

Catalyzes the hydrolyze of the acetyl group at the sn-2 position of platelet-activating factor (PAF) and its analogs, leading to their inactivation (PubMed:9494101). Hydrolyzes propionyl and butyryl moieties approximately half as effectively as PAF (By similarity). Also catalyzes transacylation of the acetyl group from platelet-activating factor (PAF) to lysoplasmalogen and to sphingosine, producing plasmalogen analogs of PAF and N-acetylsphingosine (C2- ceramide) respectively. Has a marked selectivity for phospholipids with short acyl chains at the sn-2 position (By similarity).

Cellular Location

Cytoplasm. Membrane {ECO:0000250|UniProtKB:P79106}; Lipid-anchor {ECO:0000250|UniProtKB:P79106}. Endoplasmic reticulum membrane {ECO:0000250|UniProtKB:P79106}; Lipid-anchor {ECO:0000250|UniProtKB:P79106}. Note=In resting cells, localizes to intracellular membranes and cytoplasm. Translocates from the cytoplasm to intracellular membranes upon oxidative stress {ECO:0000250|UniProtKB:P79106}

Tissue Location

Broadly expressed in different tissues, but high in B- and T-lymphocytes. In brain, expression is restricted to amygdala and frontal cortex.

PAFAH2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PAFAH2 Antibody (Center) Blocking Peptide - Images

PAFAH2 Antibody (Center) Blocking Peptide - Background

This gene encodes platelet-activating factor acetylhydrolase isoform 2, a single-subunit intracellular enzyme that catalyzes the removal of the acetyl group at the SN-2 position of platelet-activating factor (identified as 1-O-alkyl-2-acetyl-sn-glycerol-3-phosphorylcholine). However, this lipase exhibits a broader substrate specificity than simply platelet activating factor. Two other isoforms of intracellular platelet-activating factor acetylhydrolase exist, and both are multi-subunit enzymes. Additionally, there is a single-subunit serum isoform of this enzyme.

PAFAH2 Antibody (Center) Blocking Peptide - References

Schmidt, E.B., et al. Atherosclerosis 196(1):420-424(2008) Umemura, K., et al. Stroke 38(3):1063-1068(2007) Unno, N., et al. J. Surg. Res. 134(1):36-43(2006) Marques, M., et al. J. Invest. Dermatol. 119(4):913-919(2002) Min, J.H., et al. Biochemistry 40(15):4539-4549(2001)