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ABHD12 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP8904a

Specification

ABHD12 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q8N2K0

ABHD12 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 26090

Other Names
Monoacylglycerol lipase ABHD12, 2-arachidonoylglycerol hydrolase, Abhydrolase domain-containing protein 12, ABHD12, C20orf22

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP8904a was selected from the N-term region of human ABHD12. 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.

ABHD12 Antibody (N-term) Blocking Peptide - Protein Information

Name ABHD12 {ECO:0000303|PubMed:20797687, ECO:0000312|HGNC:HGNC:15868}

Function
Lysophosphatidylserine (LPS) lipase that mediates the hydrolysis of lysophosphatidylserine, a class of signaling lipids that regulates immunological and neurological processes (PubMed:25290914, PubMed:30237167, PubMed:30420694, PubMed:30720278, PubMed:30643283). Represents a major lysophosphatidylserine lipase in the brain, thereby playing a key role in the central nervous system (By similarity). Also able to hydrolyze oxidized phosphatidylserine; oxidized phosphatidylserine is produced in response to severe inflammatory stress and constitutes a proapoptotic 'eat me' signal (PubMed:<a href="http://www.uniprot.org/citations/30643283"

target="_blank">30643283). Also has monoacylglycerol (MAG) lipase activity: hydrolyzes 2-arachidonoylglycerol (2-AG), thereby acting as a regulator of endocannabinoid signaling pathways (PubMed:22969151, PubMed:24027063). Has a strong preference for very-long-chain lipid substrates; substrate specificity is likely due to improved catalysis and not improved substrate binding (PubMed:30237167).

Cellular Location
Endoplasmic reticulum membrane; Single-pass membrane protein

ABHD12 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ABHD12 Antibody (N-term) Blocking Peptide - Images

ABHD12 Antibody (N-term) Blocking Peptide - Background

ABHD12 has 2-arachidonoylglycerol hydrolase activity (By similarity). It may be a regulator of endocannabinoid signaling pathways (By similarity).

ABHD12 Antibody (N-term) Blocking Peptide - References

Bechtel S., et.al., BMC Genomics 8:399-399(2007).