

ABHD12 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8904a**Specification**

ABHD12 Antibody (N-term) Blocking Peptide - Product InformationPrimary 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](/products/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](http://www.uniprot.org/citations/25290914), PubMed:[30237167](http://www.uniprot.org/citations/30237167), PubMed:[30420694](http://www.uniprot.org/citations/30420694), PubMed:[30720278](http://www.uniprot.org/citations/30720278), PubMed:[30643283](http://www.uniprot.org/citations/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:[30643283](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).