

# ABHD12 Antibody (N-term) Blocking Peptide

Synthetic peptide Catalog # BP8904a

## Specification

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

Primary Accession

<u>Q8N2K0</u>

## 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 <a href=/products/AP8904a>AP8904a</a> 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:<a href="http://www.uniprot.org/citations/25290914" target="\_blank">25290914</a>, PubMed:<a href="http://www.uniprot.org/citations/30237167" target="\_blank">30237167</a>, PubMed:<a href="http://www.uniprot.org/citations/30420694" target="\_blank">30420694</a>, PubMed:<a href="http://www.uniprot.org/citations/30420694" target="\_blank">30420694</a>, PubMed:<a href="http://www.uniprot.org/citations/30643283" target="\_blank">30643283</a>, PubMed:<a href="http://www.uniprot.org/citations/30643283" target="\_blank">30720278</a>). Represents a href="http://www.uniprot.org/citations/30720278" target="\_blank">30720278</a>). 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"" http://www.uniprot.org/citations/30643283"" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30720278" http://www.uniprot.org/citations/30720278" http://www.uniprot.org/citations/30720278" http://www.uniprot.org/citations/30720278" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283" http://www.uniprot.org/citations/30643283"



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

#### **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.

<u>Blocking Peptides</u>

### 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).