

ABHD12 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8904a

Product Information

Application	IHC-P, FC, WB, E
Primary Accession	Q8N2K0
Other Accession	Q6AYT7 , Q99LR1 , Q4R766 , Q08DW9
Reactivity	Human
Predicted	Bovine, Monkey, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB22386
Calculated MW	45097
Antigen Region	40-66

Additional Information

Gene ID	26090
Other Names	Monoacylglycerol lipase ABHD12, 2-arachidonoylglycerol hydrolase, Abhydrolase domain-containing protein 12, ABHD12, C20orf22
Target/Specificity	This ABHD12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-66 amino acids from the N-terminal region of human ABHD12.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ABHD12 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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:[30643283](#), PubMed:[30720278](#)). 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](#)). 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

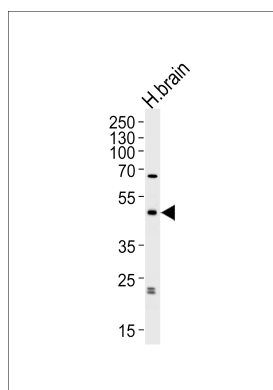
Background

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

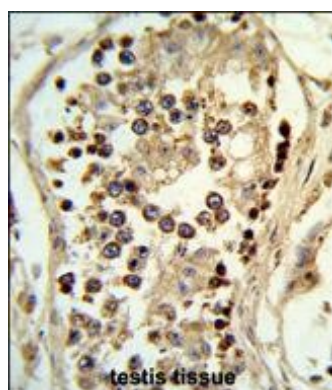
References

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

Images



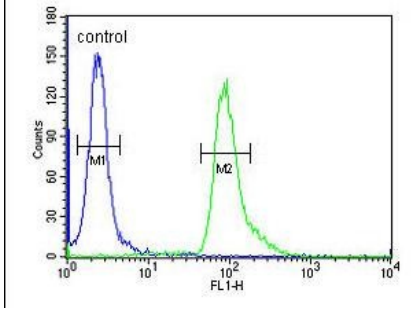
Western blot analysis of lysate from human brain tissue lysate, using ABHD12 Antibody (N-term)(Cat. #AP8904a). AP8904a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



Formalin-fixed and paraffin-embedded human testis tissue reacted with ABHD12 Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ABHD12 Antibody (N-term) (Cat. #AP8904a) flow cytometric analysis of A549 cells (right histogram) compared to a negative control cell (left

A549



histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.