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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, Mouse, Canine, Rabbit
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, PubMed:33571455). Represents a major lysophosphatidylserine lipase in the brain, thereby playing a key role in the central nervous system (By similarity). Prefers as substrates lysophosphatidylserines having long and very long chain acyl chains (PubMed:33571455). 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

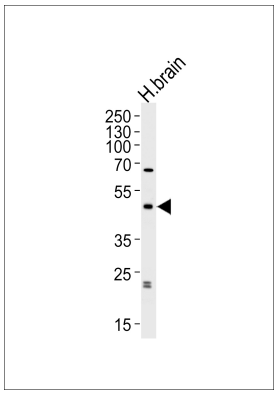
Background

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

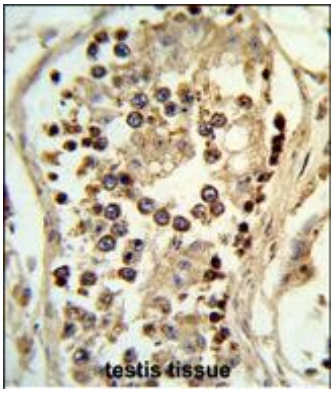
References

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

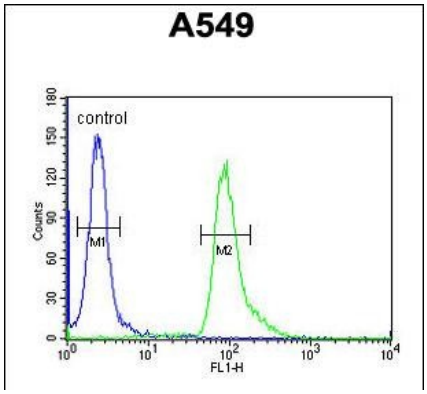
Images



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 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'.