

ABHD5 Antibody
Rabbit mAb
Catalog # AP92082

Specification

ABHD5 Antibody - Product Information

Application	WB, IHC
Primary Accession	Q8WTS1
Clonality	Monoclonal
Other Names	
ABHD5; Abhydrolase domain containing 5; CDS; CGI58; IECN2; NCIE2;	

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	39096 Da

ABHD5 Antibody - Additional Information

Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human ABHD5
Description	Lysophosphatidic acid acyltransferase which functions in phosphatidic acid biosynthesis. May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2. Involved in keratinocyte differentiation.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

ABHD5 Antibody - Protein Information

Name ABHD5 ([HGNC:21396](#))

Synonyms NCIE2

Function

Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfer of an acyl group on a lysophosphatidic acid (PubMed:[18606822](http://www.uniprot.org/citations/18606822)). Functions preferentially with 1-oleoyl- lysophosphatidic acid followed by 1-palmitoyl-lysophosphatidic acid, 1-stearoyl-lysophosphatidic acid and 1-arachidonoyl-lysophosphatidic acid as lipid acceptor. Functions preferentially with arachidonoyl-CoA followed by oleoyl-CoA as acyl group donors (By similarity). Functions in phosphatidic acid biosynthesis (PubMed:[18606822](http://www.uniprot.org/citations/18606822)). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed:[18606822](http://www.uniprot.org/citations/18606822)).

href="http://www.uniprot.org/citations/16679289" target="_blank">16679289). Involved in keratinocyte differentiation (PubMed:18832586). Regulates lipid droplet fusion (By similarity).

Cellular Location

Cytoplasm. Lipid droplet {ECO:0000250|UniProtKB:Q9DBL9}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q9DBL9}. Note=Colocalized with PLIN and ADRP on the surface of lipid droplets. The localization is dependent upon the metabolic status of the adipocytes and the activity of PKA (By similarity).

Tissue Location

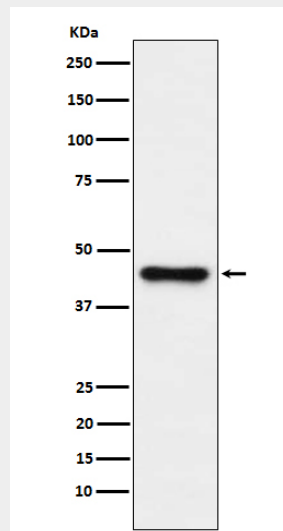
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

ABHD5 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ABHD5 Antibody - Images



Western blot analysis of ABHD5 expression in HepG2 cell lysate.