

**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**

Dilution **WB~~1:1000**  
**IHC~~1:100~500**  
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:<a href="http://www.uniprot.org/citations/18606822" target="\_blank">18606822</a>). 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:<a

<http://www.uniprot.org/citations/18606822> target="\_blank">18606822</a>). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed:<a href="http://www.uniprot.org/citations/16679289" target="\_blank">16679289</a>). Involved in keratinocyte differentiation (PubMed:<a href="http://www.uniprot.org/citations/18832586" target="\_blank">18832586</a>). 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

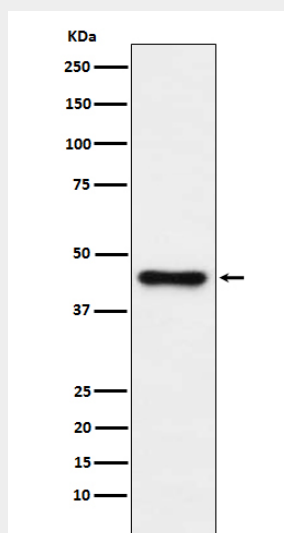
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

### 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.