

**ABHD5 Antibody (clone 1F3)**  
**Mouse Monoclonal Antibody**  
**Catalog # ALS14230****Specification**

---

**ABHD5 Antibody (clone 1F3) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q8WTS1</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	39kDa KDa

**ABHD5 Antibody (clone 1F3) - Additional Information****Gene ID** 51099**Other Names**

1-acylglycerol-3-phosphate O-acyltransferase ABHD5, 2.3.1.51, Abhydrolase domain-containing protein 5, Lipid droplet-binding protein CGI-58, ABHD5, NCIE2

**Target/Specificity**

Human Abhd5

**Reconstitution & Storage**

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

**Precautions**

ABHD5 Antibody (clone 1F3) is for research use only and not for use in diagnostic or therapeutic procedures.

**ABHD5 Antibody (clone 1F3) - 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:[16679289](http://www.uniprot.org/citations/16679289)). 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

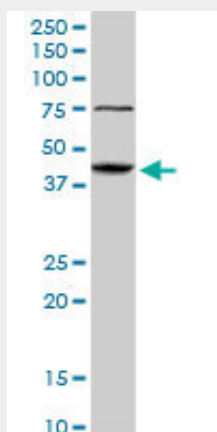
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

### ABHD5 Antibody (clone 1F3) - Protocols

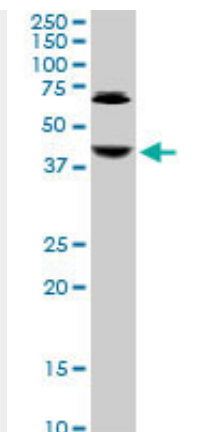
Provided below are standard protocols that you may find useful for product applications.

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

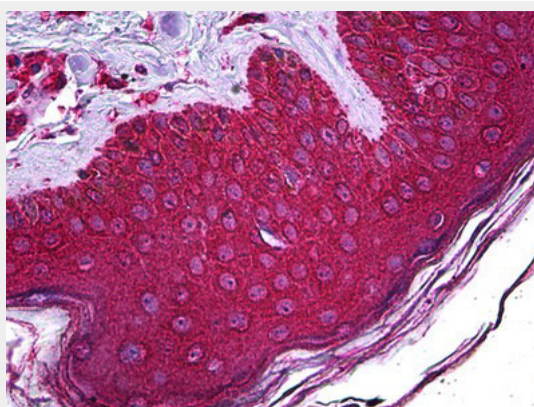
### ABHD5 Antibody (clone 1F3) - Images



ABHD5 monoclonal antibody, clone 1F3. Western blot of ABHD5 expression in human liver.



ABHD5 monoclonal antibody, clone 1F3. Western blot of ABHD5 expression in Jurkat.



Anti-ABHD5 / CGI-58 antibody IHC of human skin.

### **ABHD5 Antibody (clone 1F3) - Background**

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.

### **ABHD5 Antibody (clone 1F3) - References**

- Lefevre C.,et al.Am. J. Hum. Genet. 69:1002-1012(2001).
- Lai C.-H.,et al.Genome Res. 10:703-713(2000).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Muzny D.M.,et al.Nature 440:1194-1198(2006).
- Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.