

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

ABHD5 Antibody (clone 1F3) - Product Information

Application	WB, IHC
Primary Accession	O8WTS1
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: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

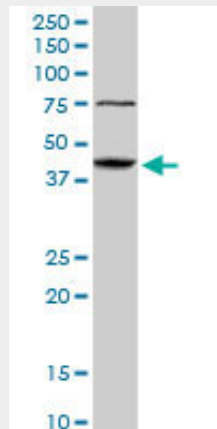
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

ABHD5 Antibody (clone 1F3) - Protocols

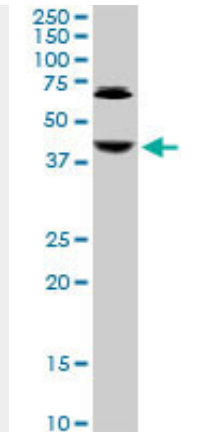
Provided below are standard protocols that you may find useful for product applications.

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

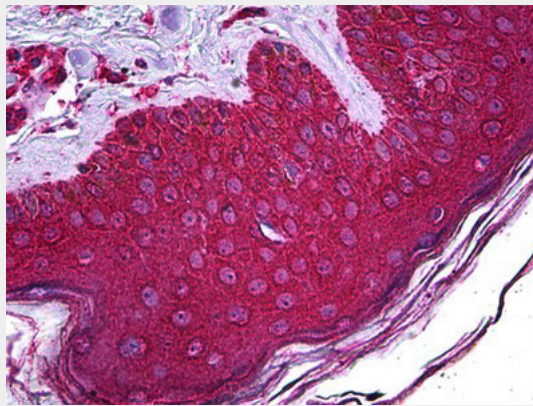
ABHD5 Antibody (clone 1F3) - Images



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.