

ABHD5 Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS13432**Specification**

ABHD5 Antibody (Internal) - Product Information

Application	IHC, WB
Primary Accession	O8WTS1
Reactivity	Human, Rabbit, Horse, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	39kDa KDa

ABHD5 Antibody (Internal) - 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 / CGI-58. This antibody is not expected to cross-react with ABHD4.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

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

ABHD5 Antibody (Internal) - 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

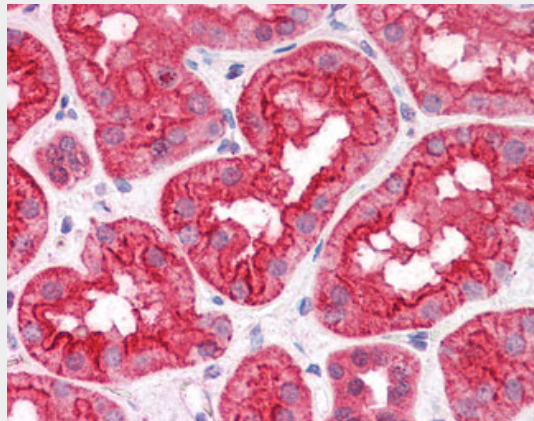
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

ABHD5 Antibody (Internal) - Protocols

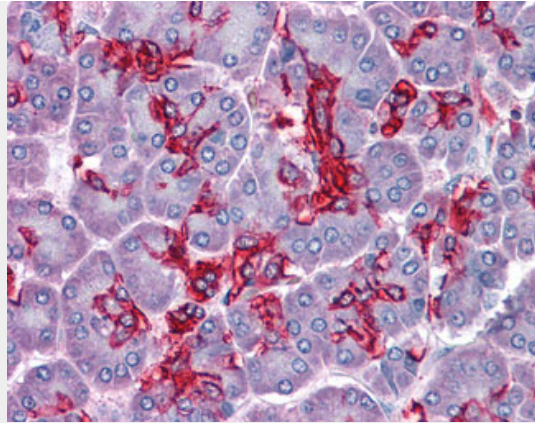
Provided below are standard protocols that you may find useful for product applications.

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

ABHD5 Antibody (Internal) - Images



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



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



ABHD5 (0.2 ug/ml) staining of NIH3T3 lysate (35 ug protein in RIPA buffer).

ABHD5 Antibody (Internal) - 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 (Internal) - 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.