

ABHD5 Antibody

Rabbit mAb

Catalog # AP92082

Product Information

Application	WB, IHC, FC
Primary Accession	Q8WTS1
Reactivity	Human
Clonality	Monoclonal
Other Names	ABHD5; Abhydrolase domain containing 5; CDS; CGI58; IECN2; NCIE2;
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	39096

Additional Information

Dilution	WB 1:500~1:2000 IHC 1:100~1:500 FC 1:100
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.

Protein Information

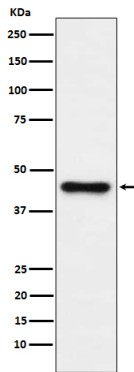
Name	ABHD5 (HGNC:21396)
Synonyms	NCIE2
Function	Coenzyme A-dependent lysophosphatidic acid acyltransferase that catalyzes the transfer of an acyl group on a lysophosphatidic acid (PubMed: 18606822). Functions preferentially with 1-oleoyl- lysophosphatidic acid followed by 1-palmitoyl-lysophosphatidic 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). May regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2 (PubMed: 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).

Images



Western blot analysis of ABHD5 expression in HepG2 cell lysate.

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