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KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1209

Product Information

Application	WB, FC
Primary Accession	Q8WTS1
Reactivity	Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB 3260
Calculated MW	39096
Gene Name	ABHD5
Aliases	ABHD5; Antibodyhydrolase Domain Containing 5, Lysophosphatidic Acid Acyltransferase; NCIE2; 1-Acylglycerol-3-Phosphate O-Acyltransferase ABHD5; Antibodyhydrolase Domain-Containing Protein 5; Lipid Droplet-Binding Protein CGI-58; EC 2.3.1.51; CGI-58; Antibodyhydrolase Domain Containing 5; CGI58; IECN2
Immunogen	A synthesized peptide derived from human ABHD5

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 (HGNC:21396), NCIE2

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).

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