ABHD5 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ABHD5, Polyclonal Antibody
Full Product Name	ABHD5 Conjugated Antibody
Product Gene Name	anti-ABHD5 antibody
Product Synonym Names	CDS; CGI58; IECN2; NCIE2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total ABHD5 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	39,096 Da
OMIM	AL606838 Genomic DNA
3D Structure	ModBase 3D Structure for Q8WTS1
Immunogen	Fusion protein corresponding to residues near the C terminal of human Abhydrolase domain containing 5
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ABHD5 antibody	Most Applications
Application Notes for anti-ABHD5 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ABHD5 antibody	The protein encoded by this gene belongs to a large family of proteins defined by an alpha/beta hydrolase fold, and contains three sequence motifs that correspond to a catalytic triad found in the esterase/lipase/thioesterase subfamily. It differs from other members of this subfamily in that its putative catalytic triad contains an asparagine instead of the serine residue. Mutations in this gene have been associated with Chanarin-Dorfman syndrome, a triglyceride storage disease with impaired long-chain fatty acid oxidation.
Other Notes	Small volumes of anti-ABHD5 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ABHD5 purchase	MBS9446473 is an antibody targeting ABHD5. Also known as ABHD5 Conjugated Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ABHD5. It may not necessarily be applicable to this product.

NCBI GI #	18314390
NCBI GeneID	51099
NCBI Accession #	BC021958
UniProt Primary Accession #	Q8WTS1
UniProt Secondary Accession #	Q9Y369; B2R9K0
UniProt Related Accession #	Q8WTS1
NCBI Official Full Name	Homo sapiens abhydrolase domain containing 5, mRNA
NCBI Official Synonym Full Names	abhydrolase domain containing 5
NCBI Official Symbol	ABHD5
NCBI Official Synonym Symbols	CDS; CGI58; IECN2; NCIE2
UniProt Protein Name	1-acylglycerol-3-phosphate O-acyltransferase ABHD5
UniProt Synonym Protein Names	Abhydrolase domain-containing protein 5; Lipid droplet-binding protein CGI-58
Protein Family	1-acylglycerol-3-phosphate O-acyltransferase
UniProt Gene Name	ABHD5
UniProt Synonym Gene Names	NCIE2
NCBI Protein Information	1-acylglycerol-3-phosphate O-acyltransferase ABHD5
UniProt Comments for ABHD5	ABHD5: a 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. Colocalized with PLIN and ADFP on the surface of lipid droplets. The localization is dependent upon the metabolic status of the adipocytes and the activity of PKA. Defects cause neutral lipid storage disease (NLSD), an autosomal recessive disorder characterized by the excessive accumulation of neutral lipids in multiple tissues, and Chanarin-Dorfman syndrome (CDS), a triglyceride storage disease with impaired long-chain fatty acid oxidation and icthyosis. CDS is an autosomal recessive inborn error of lipid metabolism with multisystemic accumulation of triglycerides although plasma concentrations are normal. 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. Protein type: EC 2.3.1.51; Lipase; Transferase Chromosomal Location of Human Ortholog: 3p21.33 Cellular Component: cytoplasm; cytosol; intracellular membrane-bound organelle; lipid particle; nucleus Molecular Function: lysophosphatidic acid acyltransferase activity; triacylglycerol lipase activity Biological Process: phosphatidic acid biosynthetic process Disease: Chanarin-dorfman Syndrome
Research Articles on ABHD5	**1.** Authors show that rat ATGL, coactivated by rat CGI-58, efficiently hydrolyzes triglycerides and retinyl ester.
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