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KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1209

Specification

KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	Q8WTS1
Reactivity	**Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 39 kDa , observed, 45 kDa KDa**
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**

KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody - 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

KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody - 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).

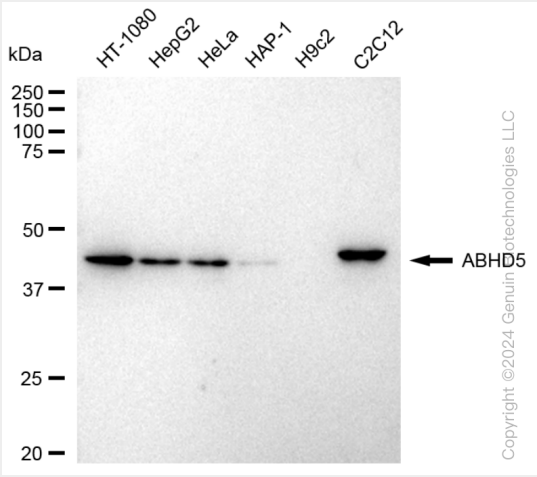
Tissue Location
Widely expressed in various tissues, including lymphocytes, liver, skeletal muscle and brain. Expressed by upper epidermal layers and dermal fibroblasts in skin, hepatocytes and neurons (at protein level).

KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-ABHD5 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-ABHD5 antibody (Cat#AGI1209). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-ABHD5 antibody (Cat#AGI1209, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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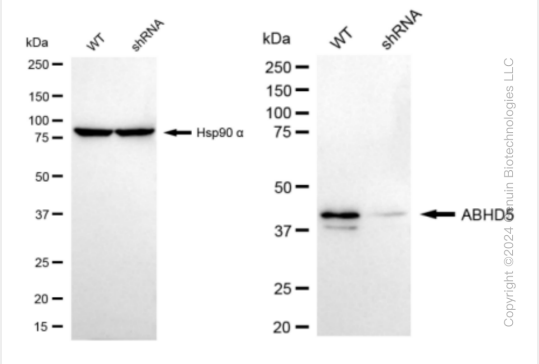
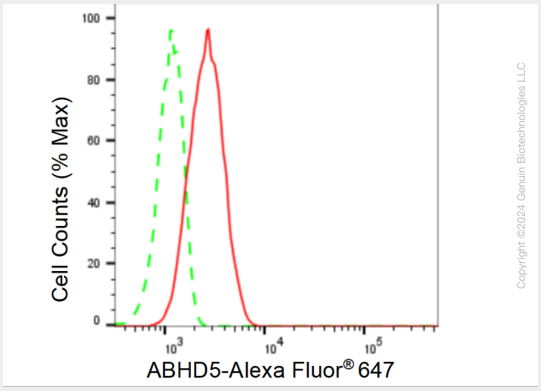


Western blotting analysis using anti-ABHD5 antibody (Cat#AGI1209). ABHD5 expression in wild type (WT) and ABHD5 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-ABHD5 antibody (Cat#AGI1209, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of ABHD5 expression in C2C12 cells using ABHD5 antibody (Cat#AGI1209, 1:2,000). Green, isotype control; red, ABHD5.