

Product Name: KD-Validated ABHD5 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01569**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,M
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 39.1kDa

Antigen Information

Gene Name	ABHD5
Alternative Names	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
Gene ID	51099.0
SwissProt ID	Q8WTS1
Immunogen	A synthesized peptide derived from human ABHD5

Background

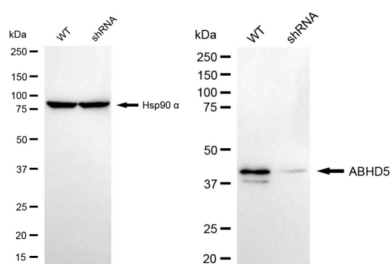
The protein encoded by this gene belongs to a large family of proteins defined by an alpha/beta hydrolase fold, and contains

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. [provided by RefSeq, Jul 2008]

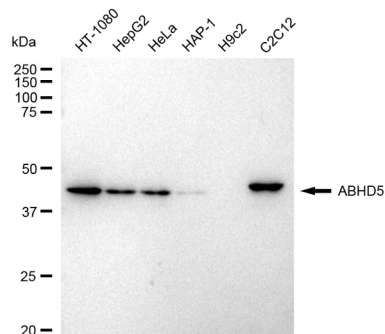
Research Area

Cardiovascular,Signal Transduction,Cancer,Metabolism,Metabolism,Neuroscience

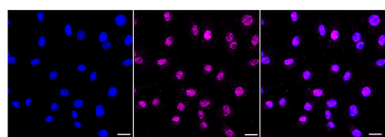
Image Data



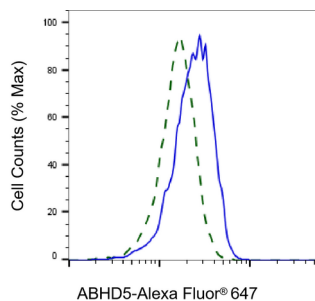
Western blotting analysis using ABHD5 antibody (KVA01569). ABHD5 expression in wild type (WT) and ABHD5 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with ABHD5 antibody (KVA01569, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



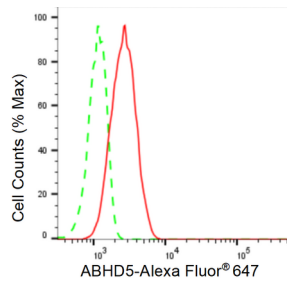
Western blotting analysis using ABHD5 antibody (KVA01569). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with ABHD5 antibody (KVA01569, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with ABHD5 antibody (KVA01569, 1:1,000). Nuclei were stained blue with DAPI; ABHD5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of ABHD5 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with ABHD5 antibody (KVA01569, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of ABHD5 expression in C2C12 cells using ABHD5 antibody (KVA01569, 1:2,000). Green, isotype control; red, ABHD5.