

ABHD5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant ABHD5.

Catalog # AT1012a

Specification

ABHD5 Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	Q8WTS1
Other Accession	BC021958
Reactivity	Human, Rat
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	39096

ABHD5 Antibody (monoclonal) (M01) - Additional Information

Gene ID 51099

Other Names

1-acylglycerol-3-phosphate O-acyltransferase ABHD5, Abhydrolase domain-containing protein 5, Lipid droplet-binding protein CGI-58, ABHD5, NCIE2

Target/Specificity

ABHD5 (AAH21958, 1 a.a. ~ 349 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

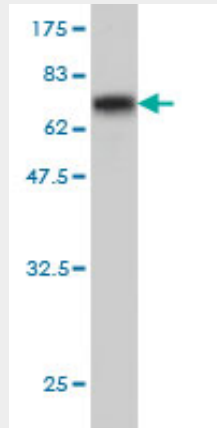
ABHD5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

ABHD5 Antibody (monoclonal) (M01) - Protocols

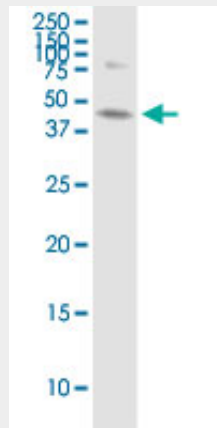
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

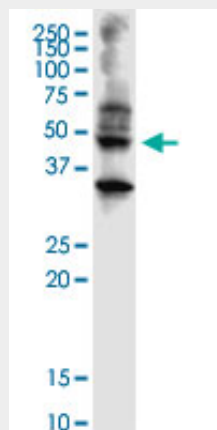
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ABHD5 Antibody (monoclonal) (M01) - Images

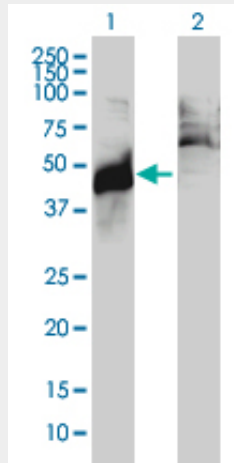
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (64.13 KDa) .



ABHD5 monoclonal antibody (M01), clone 1F3. Western Blot analysis of ABHD5 expression in rat testis.

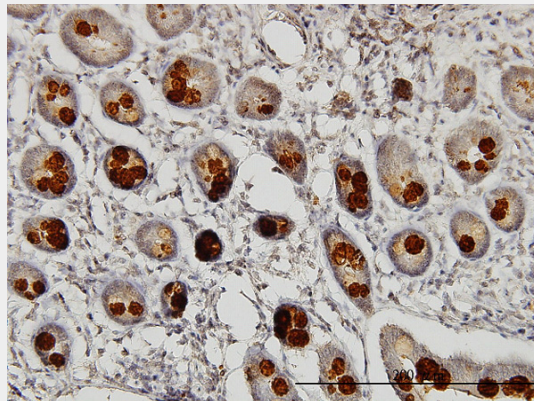


ABHD5 monoclonal antibody (M01), clone 1F3. Western Blot analysis of ABHD5 expression in HeLa.

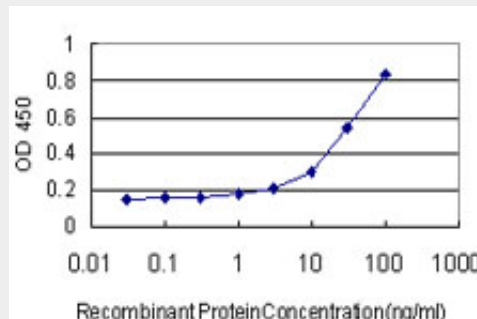


Western Blot analysis of ABHD5 expression in transfected 293T cell line by ABHD5 monoclonal antibody (M01), clone 1F3.

Lane 1: ABHD5 transfected lysate(39 KDa).
 Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to ABHD5 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged ABHD5 is approximately 1ng/ml as a capture antibody.

ABHD5 Antibody (monoclonal) (M01) - 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.

ABHD5 Antibody (monoclonal) (M01) - References

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3. Endurance Exercise Training Up-Regulates Lipolytic Proteins and Reduces Triglyceride Content in Skeletal Muscle of Obese Subjects. Louche K, Badin PM, Montastier E, Laurens C, Bourlier V, de Glisezinski I, Thalamas C, Viguerie N, Langin D, Moro CJ *Clin Endocrinol Metab*. 2013 Oct 31.

4. Downregulation of adipose triglyceride lipase in the heart aggravates diabetic cardiomyopathy in db/db mice. Inoue T, Kobayashi K, Inoguchi T, Sonoda N, Maeda Y, Hirata E, Fujimura Y, Miura D, Hirano K, Takayanagi R *Biochem Biophys Res Commun*. 2013 Aug 16;438(1):224-9. doi: 10.1016/j.bbrc.2013.07.063. Epub 2013 Jul 22.

5. Deficiency of Liver Comparative Gene Identification-58 (CGI-58) Causes Steatohepatitis and Fibrosis in Mice. Guo F, Ma Y, Kadegowda AK, Xie P, Liu G, Liu X, Miao H, Ou J, Su X, Zheng Z, Xue B, Shi H, Yu LJ *Lipid Res*. 2013 Jun 3.

6. Cardiac-specific overexpression of perilipin 5 provokes severe cardiac steatosis via the formation of a lipolytic barrier. Pollak NM, Schweiger M, Jaeger D, Kolb D, Kumari M, Schreiber R, Kolleritsch S, Markolin P, Grabner GF, Heier C, Zierler KA, Rulicke T, Zimmermann R, Lass A, Zechner R, Haemmerle GJ *Lipid Res*. 2013 Apr;54(4):1092-102. doi: 10.1194/jlr.M034710. Epub 2013 Jan 23.

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