

Datasheet for ABIN4886411
anti-ABHD5 antibody (AA 169-349)



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2 Images

Overview

Quantity:	100 µg
Target:	ABHD5
Binding Specificity:	AA 169-349
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABHD5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Abhd5 Antibody Picoband®
Immunogen:	E. coli-derived human Abhd5 recombinant protein (Position: R169-D349). Human Abhd5 shares 96.7% amino acid (aa) sequence identity with both mouse and rat Abhd5.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Abhd5 Antibody Picoband® (ABIN4886411). Tested in IF, IHC, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification: Immunogen affinity purified.

Target Details

Target: ABHD5

Alternative Name: ABHD5 ([ABHD5 Products](#))

Background: Synonyms: 1-acylglycerol-3-phosphate O-acyltransferase ABHD5,2.3.1.51,Abhydrolase domain-containing protein 5,Lipid droplet-binding protein CGI-58,ABHD5,NCIE2,CGI-58,
Tissue Specificity: 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). .
Background: 1-acylglycerol-3-phosphate O-acyltransferase ABHD5 is an enzyme that in humans is encoded by the ABHD5 gene. 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 withChanarin-Dorfman syndrome, a triglyceride storage disease with impaired long-chain fatty acid oxidation. Sequence Similarities: Belongs to the transient receptor (TC 1.A.4) family. STrpC subfamily. TRPC4 sub-subfamily.

Molecular Weight: 43 kDa

Gene ID: 51099

Pathways: [Lipid Metabolism](#)

Application Details

Application Notes: Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human
Western blot, 0.1-0.5 µg/mL, Human, Rat
1. Ghosh AK, Ramakrishnan G, Chandramohan C, Rajasekharan R (Sep 2008). "CGI-58, the causative gene for Chanarin-Dorfman syndrome, mediates acylation of lysophosphatidic acid". The Journal of Biological Chemistry 283 (36): 24525-33. 2. Skarnes WC, Rosen B, West AP, Koutsourakis M, Bushell W, Iyer V, Mujica AO, Thomas M, Harrow J, Cox T, Jackson D, Severin J, Biggs P, Fu J, Nefedov M, de Jong PJ, Stewart AF, Bradley A (Jun 2011). "A conditional knockout resource for the genome-wide study of mouse gene function". Nature 474 (7351):

Application Details

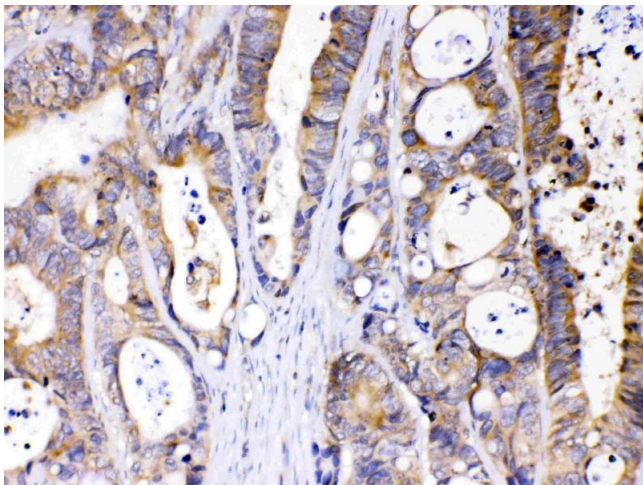
337-342.

Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. Abhd5 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- Abhd5 Antigen Affinity purified polyclonal antibody (Catalog #) at 1 µg/mL. The immunohistochemical section was developed using SABC method (Catalog # SA1022).



Western Blotting

Image 2. Western blot analysis of Abhd5 expression in rat kidney extract (Lane 1) and A431 whole cell lysates (Lane 2). Abhd5 at 43KD was detected using rabbit anti- Abhd5 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).