

## Basic Information

Product Name	Anti-ABHD5 Antibody
Gene Name	ABHD5
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB, IHC, ICC/IF
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
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.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	45 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunocytochemistry/Immunofluorescence(ICC/IF): 1:50-400 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or pH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

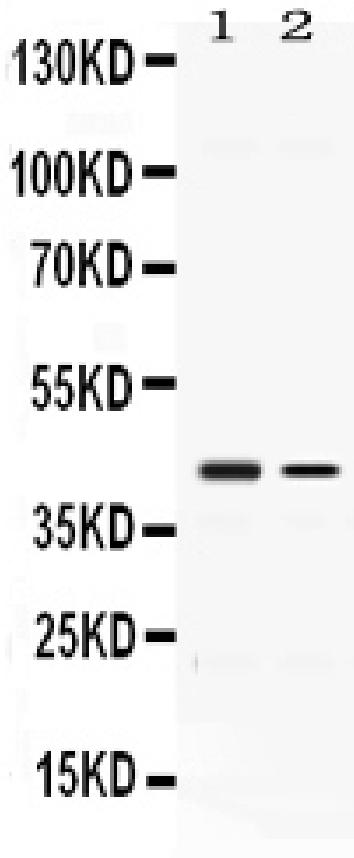
## Storage

12 months from date of receipt, -20°C as supplied.

## Background Information

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 with Chanarin-Dorfman syndrome, a triglyceride storage disease with impaired long-chain fatty acid oxidation.

## Selected Validation Data

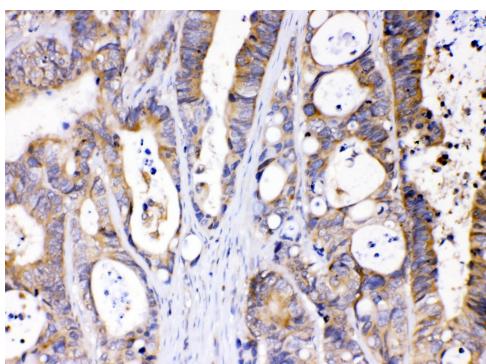


Western blot analysis of ABHD5 using anti-ABHD5 antibody (PB10021). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

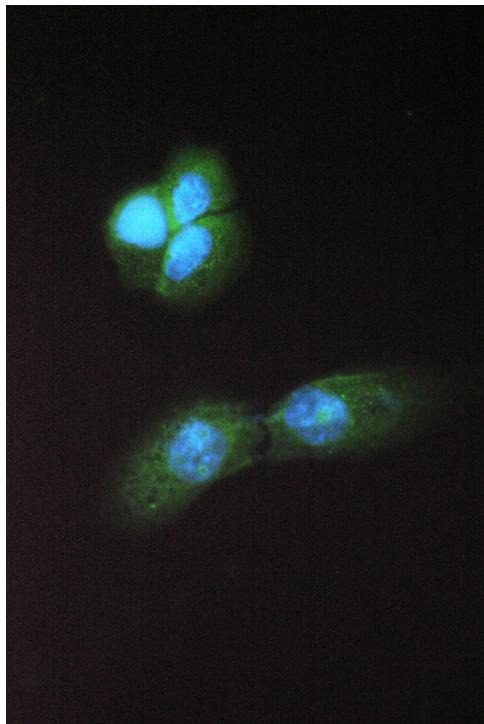
Lane 1: rat kidney tissue lysates,

Lane 2: A431 whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ABHD5 antigen affinity purified polyclonal antibody (PB10021) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ABHD5 at approximately 45 kDa. The expected band size for ABHD5 is at 39 kDa.



IHC analysis of ABHD5 using anti-ABHD5 antibody (PB10021). ABHD5 was detected in a paraffin-embedded section of human intestinal cancer tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ABHD5 Antibody (PB10021) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



ICC/IF analysis of Abhd5 using anti- Abhd5 antibody (PB10021). Abhd5 was detected in immunocytochemical section of A431 cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 2 $\mu$ g/mL rabbit anti- Abhd5 Antibody ((PB10021) overnight at 4°C. Fluoro488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.