

For Research Use Only

# ABHD5 Polyclonal antibody

Catalog Number: 12201-1-AP

Featured Product

29 Publications



## Basic Information

### Catalog Number:

12201-1-AP

### Size:

600 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG2840

### GenBank Accession Number:

BC021958

### GeneID (NCBI):

51099

### UNIPROT ID:

Q8WTS1

### Full Name:

abhydrolase domain containing 5

### Calculated MW:

349 aa, 39 kDa

### Observed MW:

39 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP, ColP

### Species Specificity:

human, mouse

### Cited Species:

human, mouse, pig

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB:** A431 cells, A549 cells, HCT 116 cells, HeLa cells, HepG2 cells, LNCaP cells, NIH/3T3 cells

**IP:** Jurkat cells,

**IHC:** human colon tissue, human kidney tissue, human liver tissue, human skeletal muscle tissue

**IF/ICC:** MCF-7 cells,

## Background Information

ABHD5, also named as NCIE2 and CGI-58, belongs to the peptidase S33 family. ABHD4/ABHD5 subfamily. It is a Lysophosphatidic acid acyltransferase which functions in phosphatidic acid biosynthesis. ABHD5 may regulate the cellular storage of triacylglycerol through activation of the phospholipase PNPLA2. It is involved in keratinocyte differentiation. ABHD5 is an evolutionarily conserved protein that acts as a potent activator of Atgl. Abhd5 is expressed in several tissues that lack Plin, raising the possibility that this co-activator might interact with additional PAT proteins. Abhd5 and Mldp are highly colocalized on individual lipid droplets. (PMID:19064991) Defects in ABHD5 are the cause of Chanarin-Dorfman syndrome (CDS).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ximing Du	31653673	J Cell Biol	WB
Xiaodong Zhang	25315694	Am J Physiol Endocrinol Metab	WB
Guohua Chen	33219129	J Biol Chem	WB

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

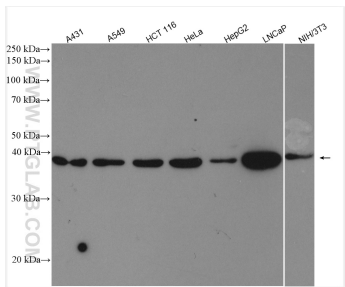
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

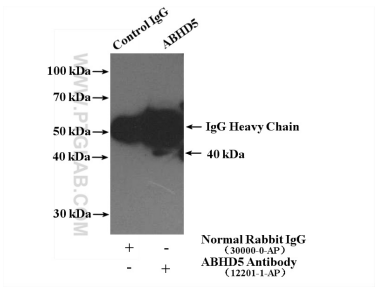
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

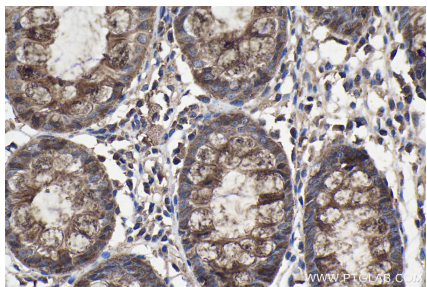
Selected Validation Data



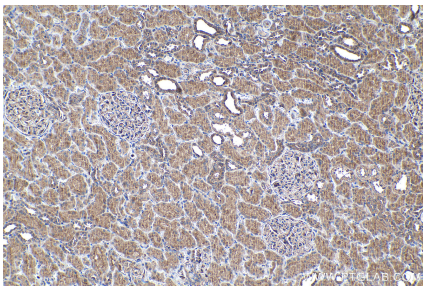
Various lysates were subjected to SDS PAGE followed by western blot with 12201-1-AP (ABHD5 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



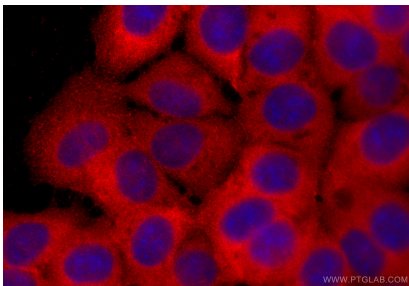
IP result of anti-ABHD5 (IP:12201-1-AP, 4ug; Detection:12201-1-AP 1:500) with Jurkat cells lysate 4000ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 12201-1-AP (ABHD5 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 12201-1-AP (ABHD5 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ABHD5 antibody (12201-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).