

ATG14/Barkor Polyclonal antibody

Catalog Number: 28021-1-AP

11 Publications

Basic Information

Catalog Number:

28021-1-AP

Size:

700 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27671

GenBank Accession Number:

NM_014924

GeneID (NCBI):

22863

UNIPROT ID:

Q6ZNE5

Full Name:

KIAA0831

Calculated MW:

55 kDa

Observed MW:

55 and 65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

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

IHC 1:200-1:800

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB, IHC, IP

Species Specificity:

Human, Mouse, Rat

Cited Species:

human, mouse

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 : mouse brain tissue, A549 cells, rat brain tissue

IP : rat brain tissue,

IHC : human liver cancer tissue,

Background Information

ATG14 plays a critical role in autophagy which is required for both basal and inducible autophagy. It has been reported that the loss of ATG14 completely blocks autophagic fusion with lysosomes. ATG14 is associated with the location of PI3-kinase complex PI3KC3-C1 and the formation of autophagosome. Besides, BECN2 can form the BECN2:ATG14 heterodimer with ATG14. 28021-1-AP antibody recognizes the 55 kDa protein and the phosphorylated 65 kDa protein in SDS-PAGE. (PMID: 28218432, 24597603, 30894050)

Notable Publications

Author	Pubmed ID	Journal	Application
Qian Zuo	34509534	Cancer Lett	WB
Zhenbing Lv	36295086	Life (Basel)	WB
Shaoming Li	35883156	Stem Cell Res Ther	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

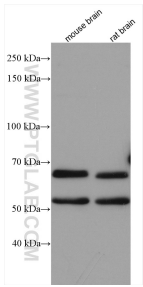
For technical support and original validation data for this product please contact:

T: 4006900926

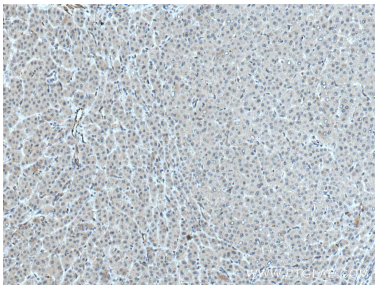
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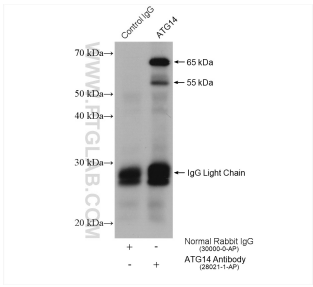
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28021-1-AP (ATG14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 28021-1-AP (ATG14 antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ATG14/Barkor (IP:28021-1-AP, 4ug; Detection:28021-1-AP 1:500) with rat brain tissue lysate 4000 ug.