

For Research Use Only

ATG14/Barkor Polyclonal antibody

Catalog Number: 28021-1-AP **8 Publications**



Basic Information

Catalog Number: 28021-1-AP	GenBank Accession Number: NM_014924	Purification Method: Antigen affinity purification
Size: 700 µg/ml	GeneID (NCBI): 22863	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q6ZNE5	IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
Isotype: IgG	Full Name: KIAA0831	IHC 1:200-1:800
Immunogen Catalog Number: AG27671	Calculated MW: 55 kDa	
	Observed MW: 55 and 65 kDa	

Applications

Tested Applications: IHC, IP, WB, ELISA	Positive Controls: WB : mouse brain tissue, A549 cells, rat brain tissue
Cited Applications: WB, IHC	IP : rat brain tissue,
Species Specificity: Human, Mouse, Rat	IHC : human liver cancer tissue,
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

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.

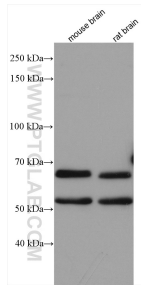
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

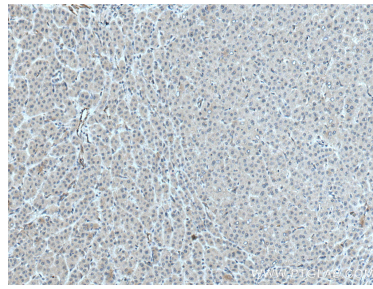
For technical support and original validation data for this product please contact:
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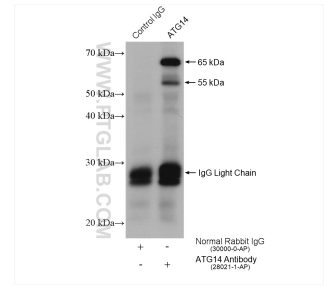
Selected Validation Data



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.