

For Research Use Only

ATG14/Barkor (C-terminal) Polyclonal antibody



Catalog Number: 24412-1-AP

Featured Product

5 Publications

Basic Information

Catalog Number: 24412-1-AP	GenBank Accession Number: BC109090	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 400 µg/ml by Nanodrop and 207 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 22863	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200 IF 1:10-1:100
Source: Rabbit	Full Name: KIAA0831	
Isotype: IgG	Calculated MW: 492 aa, 55 kDa	
Immunogen Catalog Number: AG19707	Observed MW: 65-68 kDa, 42 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : mouse brain tissue, HeLa cells IHC : human brain tissue, human liver tissue IF : HeLa cells,
Cited Applications: IF, WB	
Species Specificity: human, mouse	
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

Barkor, also named as ATG14, Atg14L and KIAA0831, is named as Beclin 1-associated autophagy-related key regulator protein. The function of Barkor in autophagy has been manifested in several assays, including stress-induced LC3 lipidation, autophagosome formation, and Salmonella typhimurium amplification. A major band around 65-68 kDa and a light band around 42 kDa can be observed in western blot which may be caused by alternative splicing of ATG14. The specificity of ATG14 antibody has been tested by siRNA test.

Notable Publications

Author	Pubmed ID	Journal	Application
Qiang Fu	25245007	Microb Pathog	WB
Shun Kato	34704591	J Cell Sci	IF
Jingqiong Lin	34411602	Exp Eye Res	WB, IF

Storage

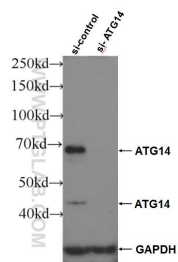
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

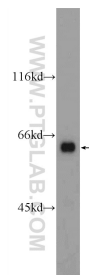
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

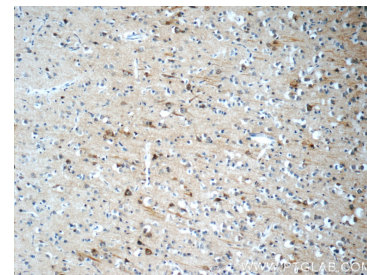
Selected Validation Data



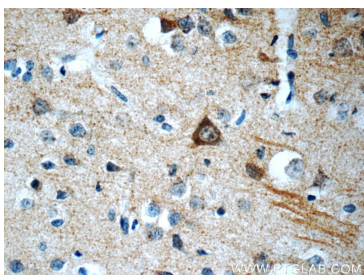
WB result of ATG14/Barkor (C-terminal) antibody (24412-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ATG14/Barkor (C-terminal) transfected HeLa cells.



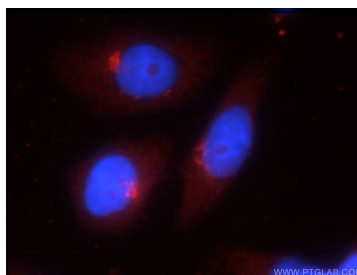
mouse brain tissue were subjected to SDS PAGE followed by western blot with 24412-1-AP (ATG14/Barkor (C-terminal) antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human brain slide using 24412-1-AP (ATG14/Barkor (C-terminal) antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human brain slide using 24412-1-AP (ATG14/Barkor (C-terminal) antibody at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of HeLa cells using 24412-1-AP (ATG14/Barkor (C-terminal) antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.