

For Research Use Only

# ATG14/Barkor (N-terminal) Polyclonal antibody



Catalog Number: 19491-1-AP

Featured Product

28 Publications

## Basic Information

Catalog Number:

19491-1-AP

Size:

350 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_014924

GeneID (NCBI):

22863

UNIPROT ID:

Q6ZNE5

Full Name:

KIAA0831

Calculated MW:

55 kDa

Observed MW:

65-68 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF 1:50-1:500

## Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IP, IF

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse, canine, bovine

**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: HEK-293 cells, A431 cells, mouse brain tissue, NIH/3T3 cells

IHC: mouse brain tissue,

IF: MCF-7 cells,

## Background Information

Barkor, also named as KIAA0831, Atg14 and Atg14L, is required for both basal and inducible autophagy. It plays a role in autophagosome formation and MAP1LC3/LC3 conjugation to phosphatidylethanolamine. Barkor promotes BECN1 translocation from the trans-Golgi network to autophagosomes. This antibody is specific to KIAA0831(Barkor).

## Notable Publications

Author	Pubmed ID	Journal	Application
Luis Muniz-Feliciano	28933590	Autophagy	WB
Qiang Fu	25234643	J Gen Virol	WB
Xueqiang Peng	32949647	Biochim Biophys Acta Mol Cell Res	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:

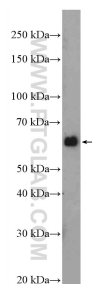
T: 4006900926

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

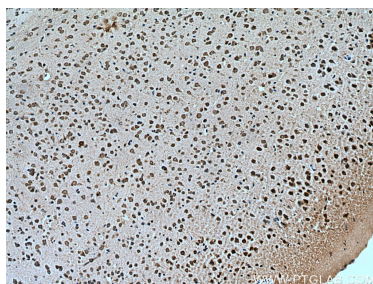
W: [ptgen.com](http://ptgen.com)

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

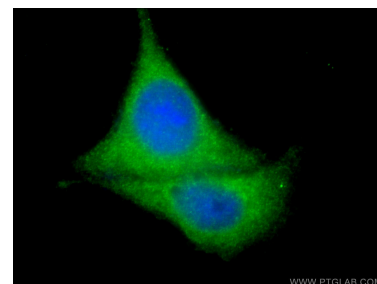
## Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 19491-1-AP (ATG14/Barkor (N-terminal) antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 19491-1-AP (ATG14/Barkor (N-terminal) antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 19491-1-AP (ATG14/Barkor (N-terminal) antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).