For Research Use Only

ATG2A Polyclonal antibody

Catalog Number:23226-1-AP

Featured Product

11 Publications



Purification Method:

Basic Information

Catalog Number: GenBank Accession Number:

23226-1-AP BC110650 Antigen Affinity purified Recommended Dilutions: GeneID (NCBI): Size:

WB 1:1000-1:8000 150ul, Concentration: 600 ug/ml by 23130 Nanodrop; IP 0.5-4.0 ug for 1.0-3.0 mg of total **UNIPROT ID:**

protein lysate Q2TAZ0 Source IHC 1:250-1:1000 Rabbit **Full Name:** ATG2 autophagy related 2 homolog A IF/ICC 1:50-1:500

Isotype

IgG (S. cerevisiae) Immunogen Catalog Number: Calculated MW: AG19709 1938 aa, 213 kDa

> Observed MW: 215 kDa

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, CoIP, Peptide array

Species Specificity:

human **Cited Species:**

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

Positive Controls:

WB: K-562 cells, MCF-7 cells, Raji cells

IP: K-562 cells,

IHC: mouse kidney tissue, IF/ICC: MCF-7 cells,

Background Information

Autophagy-related protein 2 homolog A (ATG2A) belongs to the ATG2 family. ATG2A is a lipid transfer protein involved in autophagosome assembly (PMID:31271352). ATG2A tethers the edge of the isolation membrane (IM) to the endoplasmic reticulum (ER) and mediates direct lipid transfer from ER to IM for IM expansion. ATG2A binds to the ER exit site (ERES), which is the membrane source for autophagosome formation, and extracts phospholipids from the membrane source and transfers them to ATG9 (ATG9A or ATG9B) to the IM for membrane expansion (PMID: 28561066). The observed MW of ATG2A is 215 kDa.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------------|-----------|------------|-------------|
| Jay Xiaojun Tan | 36071159 | Nature | WB |
| Ying Li | 33124742 | FASEB J | WB |
| Elodie Mailler | 34799570 | Nat Commun | IF |

Storage

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

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

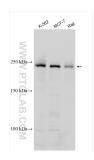
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

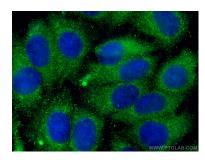
E: proteintech@ptglab.com W: ptglab.com

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

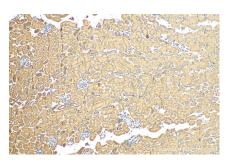
Selected Validation Data



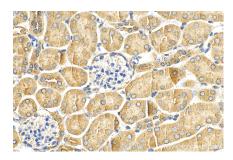
Various lysates were subjected to SDS PAGE followed by western blot with 23226-1-AP (ATG2A antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



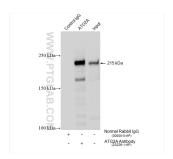
Immunofluorescent analysis of (-20°C Methanol) fixed MCF-7 cells using ATG2A antibody (23226-1-AP) at dilution of 1:200 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 23226-1-AP (ATG2A antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 23226-1-AP (ATG2A antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ATG2A (IP:23226-1-AP, 4ug; Detection:23226-1-AP 1:4000) with K-562 cells lysate 2400 ug.