

For Research Use Only

ATG3 Polyclonal antibody

Catalog Number: 11262-2-AP

24 Publications



Basic Information

Catalog Number: 11262-2-AP	GenBank Accession Number: BC024221	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 ug/ml by Nanodrop;	GeneID (NCBI): 64422	Recommended Dilutions: WB 1:2000-1:12000 IHC 1:500-1:2000 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: Q9NT62	
Isotype: IgG	Full Name: ATG3 autophagy related 3 homolog (S. cerevisiae)	
Immunogen Catalog Number: AG1785	Calculated MW: 36 kDa	
	Observed MW: 36-40 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : HL-60 cells, HeLa cells, Jurkat cells, K-562 cells, THP-1 cells, PC-12 cells
Species Specificity: human, mouse, rat	IHC : mouse kidney tissue,
Cited Species: human, mouse, rat, pig	IF/ICC : HEK-293 cells,
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

Autophagy is a lysosome-dependent conserved catabolic process in response to various stresses, such as oxidative stress and ischemia, for the degradation and recycling of aged or dysfunctional intracellular components and damaged organelles. A large group of autophagy-related genes (ATGs) have been identified as essential drivers in different stages of autophagy. Autophagy-related 3 (ATG3), one of the autophagy-related gene family members, serves as an E2-like enzyme contributing to the conjugation of microtubule-associated protein light chain 3 (LC3) to lipid phosphatidylethanolamine (PE). ATG3 plays a significant role in the regulation of autophagy, viability, and death.

Notable Publications

Author	Pubmed ID	Journal	Application
Na Yang	34546510	Stem Cell Rev Rep	WB
Hou Chaoqun	36183442	Tissue Cell	IF
Yeyi Xiao	36270035	Ecotoxicol Environ Saf	WB

Storage

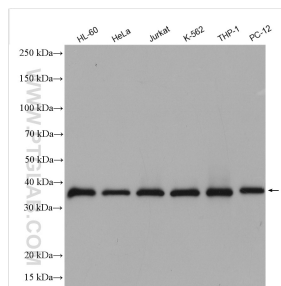
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

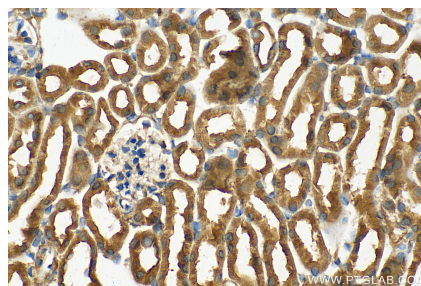
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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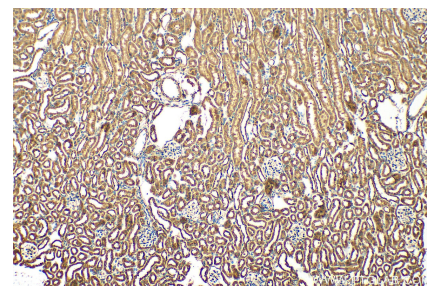
Selected Validation Data



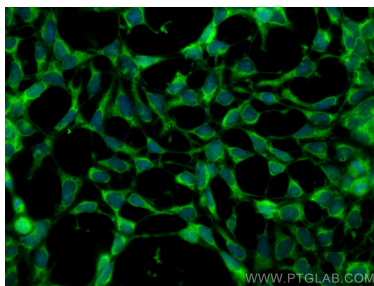
Various lysates were subjected to SDS PAGE followed by western blot with 11262-2-AP (ATG3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11262-2-AP (ATG3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 11262-2-AP (ATG3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ATG3 antibody (11262-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).