

# ATG9A Monoclonal antibody

Catalog Number: **67096-1-Ig** **5 Publications**

## Basic Information

<b>Catalog Number:</b> 67096-1-Ig	<b>GenBank Accession Number:</b> BC065534	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 79065	<b>CloneNo.:</b> 1D12E11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q7Z3C6	<b>Recommended Dilutions:</b> WB 1:2000-1:10000 IHC 1:300-1:1200 IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> ATG9 autophagy related 9 homolog A (S. cerevisiae)	
<b>Immunogen Catalog Number:</b> AG24278	<b>Calculated MW:</b> 837 aa, 94 kDa	
	<b>Observed MW:</b> 94 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, HepG2 cells, Jurkat cells IHC : human thyroid cancer tissue, IF/ICC : HepG2 cells,
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> Human	
<b>Cited Species:</b> human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

ATG9A is the only transmembrane ATG protein essential for autophagy. It plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS). It has been reported that ATG9A expression is increased in oral squamous cell carcinoma and breast cancers. The inhibition of ATG9A can lead to an inhibition of cancer cell proliferation and invasion.(PMID: 29437695, 29568063)

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhiheng Zhang	38228036	Drug Resist Updat	WB
Laurence Lecordier	38041817	Cell Rep	IF
Xuezhao Feng	37957156	Nat Commun	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

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

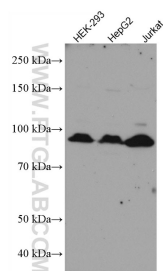
T: 4006900926

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

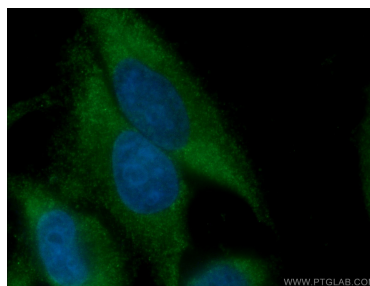
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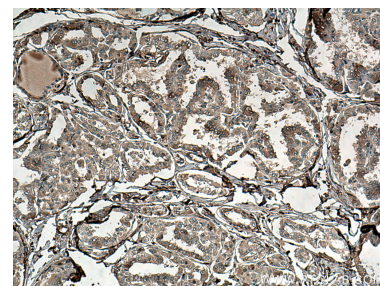
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67096-1-Ig (ATG9A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 67096-1-Ig (ATG9A antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human thyroid cancer tissue slide using 67096-1-Ig (ATG9A antibody) at dilution of 1:600 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).