

For Research Use Only

# ATG13 Monoclonal antibody

Catalog Number: 66708-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66708-1-Ig	<b>GenBank Accession Number:</b> BC001331	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1800 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 9776	<b>CloneNo.:</b> 1C3A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> O75143	<b>Recommended Dilutions:</b> WB 1:1000-1:6000 IHC 1:50-1:500 IF/ICC 1:400-1:1600
<b>Isotype:</b> IgG1	<b>Full Name:</b> KIAA0652	
<b>Immunogen Catalog Number:</b> AG12968	<b>Calculated MW:</b> 57 kDa	
	<b>Observed MW:</b> 57 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, FC (Intra), ELISA	<b>Positive Controls:</b> <b>WB :</b> HEK-293 cells, BGC-823 cells, NIH/3T3 cells, pig brain tissue, rat brain tissue, mouse brain tissue, HeLa cells, Jurkat cells <b>IHC :</b> mouse testis tissue, mouse brain tissue <b>IF/ICC :</b> HeLa cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, mouse, rat, pig	
<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

ATG13 is one component protein of the ULK1 complex which is required for autophagosome formation and mitophagy. ATG13 has two nutrient regulatory phosphorylation sites and the phosphorylation status of ATG13 affect regulation of autophagy by modulating enzyme activity and cellular localization of ULK1. Besides, it has been reported the nonautophagic function of ATG13 on cardiac development for ATG13-deficient embryos show myocardial growth defects.(PMID:27387056, 26801615, 26644405)

## Notable Publications

Author	Pubmed ID	Journal	Application
Hongchang Li	36198274	Cell Rep	WB
Xiang Fei	39235611	Cancer Chemother Pharmacol	WB

## Storage

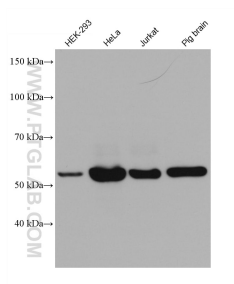
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

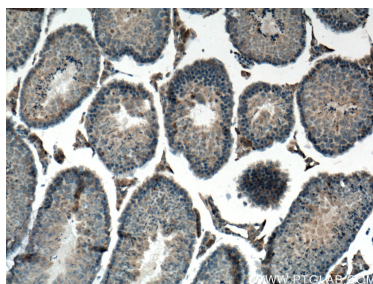
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

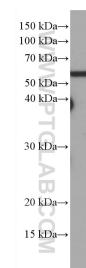
## Selected Validation Data



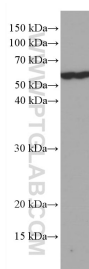
Various lysates were subjected to SDS PAGE followed by western blot with 66708-1-Ig (ATG13 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



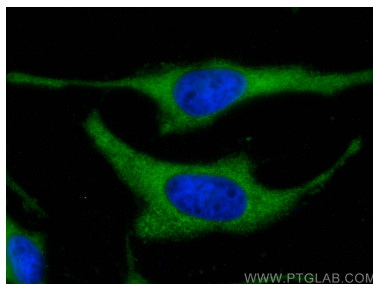
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66708-1-Ig (KIAA0652 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



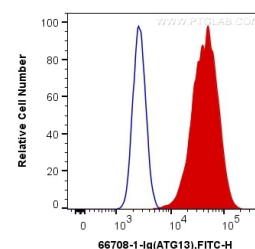
BGC-823 cells were subjected to SDS PAGE followed by western blot with 66708-1-Ig (KIAA0652 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 66708-1-Ig (KIAA0652 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using ATG13 antibody (66708-1-Ig, Clone: 1C3A7) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human ATG13 (66708-1-Ig, Clone:1C3A7) and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).