

For Research Use Only

# ATG16L1 Polyclonal antibody

Catalog Number: 19812-1-AP **13 Publications**



## Basic Information

<b>Catalog Number:</b> 19812-1-AP	<b>GenBank Accession Number:</b> BC000061	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 55054	<b>Recommended Dilutions:</b> WB 1:200-1:1000 IP 0.5-4.0 ug for IP and 1:200-1:1000
<b>Source:</b> Rabbit	<b>Full Name:</b> ATG16 autophagy related 16-like 1 (S. cerevisiae)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 607 aa, 68 kDa	
<b>Immunogen Catalog Number:</b> AG13844	<b>Observed MW:</b> 63-71 kDa	

## Applications

<b>Tested Applications:</b> IP, WB, ELISA	<b>Positive Controls:</b> WB : mouse spleen tissue, MCF-7 cells, Jurkat cells, HEK-293T cells IP : MCF-7 cells,
<b>Cited Applications:</b> CoIP, IF, IHC, WB	
<b>Species Specificity:</b> human, mouse	
<b>Cited Species:</b> human, mouse, pig, rat	

## Background Information

Human ATG16L1 is a 607 amino acid protein (~68 kDa) comprising three major domains: the N-terminal ATG5 binding domain (ATG5-BD), the central coiled-coil domain (CCD) and a predicted C-terminal WD40-domain. ATG16L1 $\alpha$  and  $\beta$  (Atg16L1 $\alpha$ , 63 kDa; and Atg16L1 $\beta$ , 71 kDa) are the major isoforms expressed in intestinal epithelium and macrophages, and all isoforms encode exon 9, which contains Thr 300. Atg16L1 mediates the cellular degradative process of autophagy and is considered a critical regulator of inflammation based on its genetic association with inflammatory bowel disease. ATG16L1 has been implicated in Crohn's disease. (PMID: 24553140, PMID: 22740627, PMID: 28685931)

## Notable Publications

Author	Pubmed ID	Journal	Application
Yunjing Zou	36362066	Int J Mol Sci	WB
Shuang-Zhou Peng	34645818	Nat Commun	IF
Yaling Li	33210714	Acta Biochim Biophys Sin (Shanghai)	WB

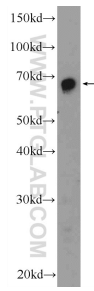
## Storage

**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

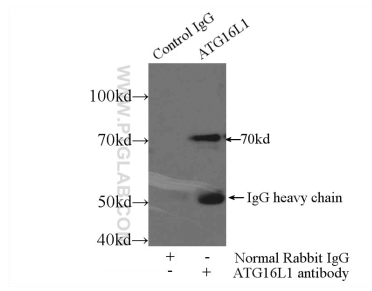
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## Selected Validation Data



mouse spleen tissue were subjected to SDS PAGE followed by western blot with 19812-1-AP (ATG16L1 Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



IP Result of anti-ATG16L1 (IP:19812-1-AP, 4ug; Detection:19812-1-AP 1:300) with MCF-7 cells lysate 2000ug.