For Research Use Only

ATG16L1 Polyclonal antibody

Catalog Number:19812-1-AP 17 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
19812-1-AP

Size:
150ul , Concentration: 350 μg/ml by Nanodrop and 233 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13844

GenBank Accession Number:
BC000061

GeneID (NCBI):
55054

UNIPROT ID:
Q676U5

Full Name:
ATG16 autophagy related 16-like 1 (S. cerevisiae)

Calculated MW:
607 aa, 68 kDa

Observed MW:
63-71 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:
WB, IP, ELISA

Cited Applications:
WB, IF, IHC, CoIP

Species Specificity:
human, mouse

Cited Species:
human, rat, mouse, pig

Positive Controls:

WB : mouse spleen tissue, MCF-7 cells, Jurkat cells, HEK-293T cells

IP : MCF-7 cells,

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. ATG16L1α and β (Atg16L1α, 63 kDa; and Atg16L1β, 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

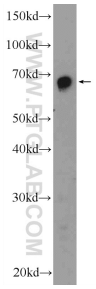
Storage

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

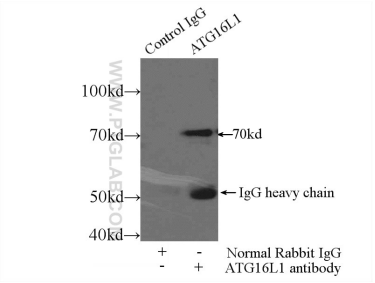
*** 20ul sizes contain 0.1% BSA

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

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.