

For Research Use Only

ATG16L1 Monoclonal antibody, PBS Only



Catalog Number: 67943-1-PBS

Basic Information

Catalog Number: 67943-1-PBS	GenBank Accession Number: BC000061	Purification Method: Protein G purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 55054	CloneNo.: 1G5G7
Source: Mouse	UNIPROT ID: Q676U5	
Isotype: IgG1	Full Name: ATG16 autophagy related 16-like 1 (S. cerevisiae)	
Immunogen Catalog Number: AG14881	Calculated MW: 607 aa, 68 kDa	
	Observed MW: 68-75 kDa	

Applications

Tested Applications:
WB, IF, ELISA

Species Specificity:
Human, mouse, 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 α and β (Atg16L1 α , 63 kDa; and Atg16L1 β , 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)

Storage

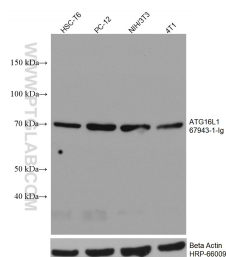
Storage:
Store at -80°C.

Storage Buffer:
PBS only

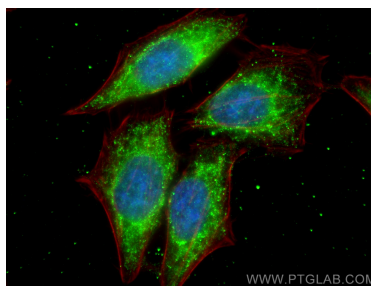
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67943-1-Ig (ATG16L1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control. This data was developed using the same antibody clone with 67943-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using ATG16L1 antibody (67943-1-Ig, Clone: 1G5G7) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red). This data was developed using the same antibody clone with 67943-1-PBS in a different storage buffer formulation.