

ATG16L1 Polyclonal Antibody

Catalog NumberPA1-46307

Product data sheet

Details		Tested Applications	Dilution *
Size	100 µL	Immunohistochemistry (Paraffin) (IHC (P)) Immunomicroscopy (IM) Western Blot (WB)	1:250
Host/Isotope	Rabbit / IgG		1:10-1:500
Class	Polyclonal		0.5-2 µg/mL
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Synthetic peptide corresponding to an N-terminal portion within residues 1-100 of the human protein [Swiss-Prot# Q676U5]		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.8 mg/mL		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Suggested positive control: HeLa whole cell lysate.

Background/Target Information

Autophagy related protein 16 L is encoded by the ATG16L gene and is located on chromosome 2 in humans. It is also known as WD30 or IBD10 (Inflammatory Bowel Disease 10). ATG 12 and ATG5 conjugate with each other and undergoes homo oligomerisation with ATG16L to form an 800 kDa complex called the Atg16L complex. This complex facilitates coupling or lipidation of LC3 to phosphatidylethanolamine (PE) and this ubiquitin-like conjugation system is a widely used marker for autophagy. However, the ATG 16L complex along with other ATGs like ATG 18 and ATG 21 prevent the premature cleavage of ATG8-PE by the cysteine protease, Atg4 until the autophagosome is deemed complete.

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