For Research Use Only

## ATG16L1 Polyclonal antibody Catalog Number:29445-1-AP 6 Publications



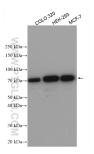
Basic Information	Catalog Number: 29445-1-AP	GenBank Accession Nu BC000061		Purification Method: Antigen affinity purification				
	Size:	GenelD (NCBI): 55054		Recommended Dilutions: WB 1:1000-1:6000 IHC 1:200-1:800 IF/ICC 1:50-1:500				
	150ul , Concentration: 1000 ug/ml by Nanodrop; Source:							
					Rabbit	Full Name: ATG16 autophagy related 16-like 1 (S. cerevisiae) Calculated MW: 607 aa, 68 kDa		
					Isotype: IgG			
	Immunogen Catalog Number: AG31318							
		Observed MW: 68-75 kDa						
	Applications	Tested Applications:		Positive Controls:				
		WB, IHC, IF/ICC, ELISA		WB: COLO 320 cells, HSC-T6 cells, HEK-293 cells, MCF				
Cited Applications: WB, IHC, IF			7 cells					
Species Specificity:			IHC : human colon cancer tissue,					
Human, mouse, rat		IF/ICC HFK-29						
Cited Species: human, mouse Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0								
				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. ATG16L1a and $\beta$ (Atg16L1a, 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)			
	epithelium and macrophages, and al cellular degradative process of autop genetic association with inflammato	l isoforms encode exon hagy and is considered ry bowel disease. ATG1	a critical regula	ns Thr 300. Atg16L1 mediates the tor of inflammation based on its				
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Notable Publications	epithelium and macrophages , and al cellular degradative process of autop genetic association with inflammato (PMID: 24553140, PMID: 22740627,PM Author Pub Jian Fang 352 Xiaoyi Zhang 359 Xueying Wang 398	l isoforms encode exon hagy and is considered y bowel disease. ATG1 IID: 28685931) med ID Journa 97435 Food F 46506 Antica	a critical regula 6L1 has been im I unct ncer Drugs	ns Thr 300. Atg16L1 mediates the tor of inflammation based on its plicated in Crohn's disease. Application WB WB				
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Notable Publications Storage *** 20ul sizes contain 0.1% BSA	epithelium and macrophages , and al cellular degradative process of autop genetic association with inflammato (PMID: 24553140, PMID: 22740627,PM Author Pub Jian Fang 352 Xiaoyi Zhang 359 Xueying Wang 398 Storage: Storage at -20°C. Stable for one year aft Storage Buffer:	l isoforms encode exon hagy and is considered ry bowel disease. ATG1 IID: 28685931) med ID Journa 97435 Food F 46506 Antica 93643 J Cell I er shipment. % glycerol, pH7.3	a critical regula 6L1 has been im I unct ncer Drugs	ns Thr 300. Atg16L1 mediates the tor of inflammation based on its plicated in Crohn's disease. Application WB WB				

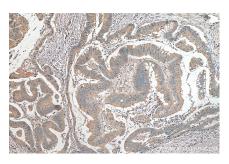
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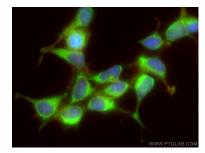
## Selected Validation Data





Various lysates were subjected to SDS PAGE Immund followed by western blot with 29445-1-AP embedd (ATG16L1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. (under 1

Immunohistochemical analysis of paraffinembedded human colon cancer tissue slide using 29445-1-AP (ATG16L1 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HEK-293 cells using ATG16L1 antibody (29445-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).