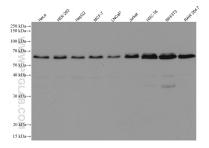
## For Research Use Only

## Beclin 1 Monoclonal antibody Catalog Number:66665-1-Ig Featured Product 101 Publications

Basic Information	Catalog Number: 66665-1-lg	GenBank Accession Number: BC010276	Purification Method: Protein G purification	
	Concentration:	GenelD (NCBI):	CloneNo.:	
	1500 ug/ml	8678	1C10C4	
	Source:	UNIPROT ID:	Recommended Dilutions:	
	Mouse	Q14457	WB 1:1000-1:5000 IHC 1:250-1:1000	
	lsotype: lgG1	Full Name: beclin 1, autophagy related	IF-P 1:50-1:500	
	Immunogen Catalog Number: AG1843	Calculated MW: 52 kDa		
		Observed MW: 52-60 kDa		
Applications	Tested Applications:	s: Positive Controls:		
	WB, IHC, IF-P, ELISA	WB : H	leLa cells, HEK-293 cells, HepG2 cells, MCF-7	
	Cited Applications: WB, IHC, IF, IP, CoIP		cells, LNCaP cells, Jurkat cells, HSC-T6 cells, NIH/31 cells, RAW 264.7 cells	
	Species Specificity: IHC : human stomach tissue,			
	human, mouse, rat		mouse heart tissue,	
	Cited Species: human, mouse, rat, goat			
	Note-IHC: suggested antige TE buffer pH 9.0; (*) Alterno retrieval may be performed buffer pH 6.0	atively, antigen		
Background Information	Beclin 1, also known as ATG6 or VPS30, interacts with various cofactors (e.g. Ambra 1, Barkor (Atg14), Rubicon, or UVRAG) to regulate the lipid kinase Vps34 and promote the formation of the BECLIN1-Vps34-Vps15 complex, hence inducing autophagy. Its function (via the BH3 domain) is inhibited by Bcl-2 or Bcl-XL Beclin 1 (BECN1) is a crucial molecule in the control of the autophagic activity, and its activity is regulated by multiple mechanisms, including the post-translational modification, protein-protein interaction, and subcellular localization. It plays a role in crosstalk between apoptosis and autophagy. It has been reported that Beclin 1 can be cleaved into fragments of 50 37 and 35 kDa during apoptosis. It is involved in many disorders, including neurodegeneration and cancer (tumorigenesis). Beclin 1 is a mammalian tumor suppressor, and its gene is monoallelically deleted in 75% of ovarian, 50% of breast, and 40% of prostate cancers. Decreased expression of Beclin 1 has also been observed in human brain and lung tumors. The level of Beclin 1 was decreased in the affected brain regions of patients with Alzheimer's disease early in the disease process. Recent studies have also shown that gain and loss of Beclin 1 function affects the death of heart cells.			
Notable Publications	Author	Pubmed ID Journal	Application	
Notable Publications	Yushan Mao	36175702 Med Oncol	WB	
Notable Publications				
Notable Publications		34551652 Drug Chem To	oxicol WB	
Notable Publications	Linlin Deng	34551652 Drug Chem To   34487720 Arch Biochem		
	Linlin Deng Jing Han Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and	34487720 Arch Biochem after shipment. I 50% glycerol, pH7.3		
Notable Publications Storage	Linlin Deng Jing Han Storage: Store at -20°C. Stable for one year Storage Buffer:	34487720 Arch Biochem after shipment. I 50% glycerol, pH7.3		

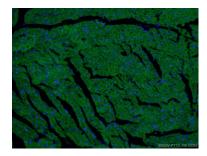


## Selected Validation Data

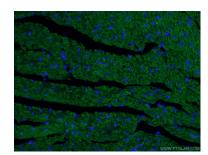


Various lysates were subjected to SDS PAGE followed by western blot with 66665-1-lg (Beclin 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human stomach tissue slide using 66665-1-1g (Beclin 1 antibody) at dilution of 1:500 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 66665-1-Ig (Beclin 1 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (4% PFA) fixed mouse heart tissue using 66665-1-Ig (Beclin 1 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).