

Beclin 1 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87536-1-PBS

Basic Information

Catalog Number:	87536-1-PBS	GenBank Accession Number:	BC010276	Purification Method:	Protein A purification
Source:	Rabbit	GeneID (NCBI):	8678	CloneNo.:	252793B7
Isotype:	IgG	UNIPROT ID:	Q14457		
Immunogen Catalog Number:	AG1843	Full Name:	beclin 1, autophagy related		
		Calculated MW:	52 kDa		
		Observed MW:	60 kDa		

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

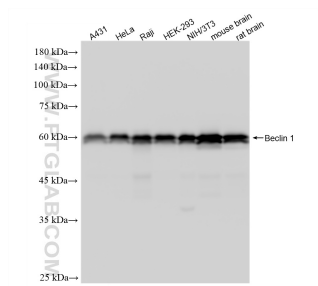
Beclin 1, also known as ATG6 or VPS30, interacts with various cofactors (e.g. Ambra1, Barkor (Atg14), Rubicon, or UVRAG) to regulate the lipid kinase Vps34 and promote the formation of the BECLIN1-Vps34-Vps15 complex, hence inducing autophagy. Its function (via the BH3 domain) is inhibited by Bcl-2 or 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.

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87536-1-RR (Beclin 1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87536-1-PBS in a different storage buffer formulation.