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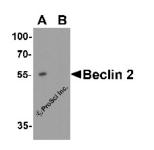
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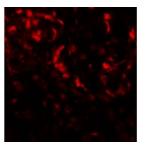
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## **Beclin 2 Antibody**

CATALOG NUMBER: 7989





Western blot analysis of Beclin 2 in Jurkat cell lysate with Beclin 2 antibody at 1 ug/ml in (A) the absence and (B) the presence of blocking peptide.

Immunofluorescence of Beclin 2 in human lung carcinoma tissue with Beclin 2 antibody at 20 ug/ml.



Immunohistochemistry of Beclin 2 in human lung carcinoma tissue with Beclin 2 antibody at 5 ug/ml.

Specifications	
SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	ELISA, IF, IHC-P, WB
APPLICATIONS:	Beclin 2 antibody can be used for detection of Beclin 2 by Western blot at 1 - 2 ug/ml. Antibody can also be used for immunohistochemistry starting at 5 ug/mL. For immunofluorescence start at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1205 - Jurkat Cell Lysate
PREDICTED MOLECULAR WEIGHT:	Predicted: 47 kDa Observed: 55 kDa
SPECIFICITY:	Beclin 2 antibody is human specific. At least two isoforms of Beclin 2 are known to exist; this antibody will only detect the longer isoform. Beclin 2 antibody is predicted to not cross-react with Beclin 1.
IMMUNOGEN:	Beclin 2 antibody was raised against a 16 amino acid peptide near the amino terminus of human Beclin 2. The immunogen is located within amino acids 30 - 80 of Beclin 2.
HOST SPECIES:	Rabbit
Properties	
PURIFICATION:	Beclin 2 antibody is affinity chromatography purified via peptide column.
PURIFICATION: PHYSICAL STATE:	Beclin 2 antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
PHYSICAL STATE: BUFFER:	Liquid Beclin 2 antibody is supplied in PBS containing 0.02% sodium azide.
PHYSICAL STATE: BUFFER: CONCENTRATION:	Liquid Beclin 2 antibody is supplied in PBS containing 0.02% sodium azide. 1 mg/mL
PHYSICAL STATE: BUFFER: CONCENTRATION: STORAGE CONDITIONS:	Liquid   Beclin 2 antibody is supplied in PBS containing 0.02% sodium azide.   1 mg/mL   Beclin 2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
PHYSICAL STATE: BUFFER: CONCENTRATION: STORAGE CONDITIONS: CLONALITY:	Liquid   Beclin 2 antibody is supplied in PBS containing 0.02% sodium azide.   1 mg/mL   Beclin 2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.   Polyclonal

Additional Info	
ALTERNATE NAMES:	BECN2, BECN1L1, Beclin-1-like protein 1, Beclin 1 autophagy related pseudogene 1, BECN1P1
ACCESSION NO.:	NP_001277622
PROTEIN GI NO.:	595582373
OFFICIAL SYMBOL:	BECN1P1
GENE ID:	441925
Deelewayad	
Background	
BACKGROUND:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells (1,2). Beclin 2 is a mammalian specific homolog of the autophagy protein Beclin 1 (3). Like Beclin 1, Beclin 2 interacts with Bcl-2 and class III PI3K complex components. However, Beclin 2 functions in an additional lysosomal degradation pathway and is required for ligand-induced endolysosomal degradation of several G protein-coupled receptors (3). Beclin 2 is also required for agonist-induced lysosome-mediated degradation of EGFR in lung cancer cells, suggesting that it may also play a role in regulating other intracellular signaling pathways (4).
REFERENCES:	1) Gozuacik D and Kimchi A. Autophagy as a cell death and tumor suppressor mechanism. Oncogene. 2004; 23:2891-906.
	2) Kisen GO, Tessitore L, Costelli P, et al. Reduced autophagic activity in primary rat hepatocellular carcinoma and ascites hepatoma cells. Carcinogenesis 1993; 14:2501-5.
	3) He C, Wei Y, Sun K, et al. Beclin 2 functions in autophagy, degradation of G protein-coupled receptors, and metabolism. Cell 2013; 154:1085-99.
	4) Zhang W and He C. Regulation of plasma membrane receptors by a new autophagy-related BECN/Beclin family member. Autophagy 2014; 10: epub.

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December 14, 2016