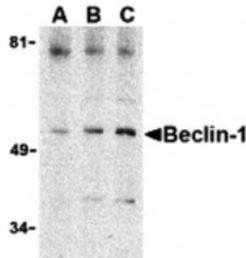
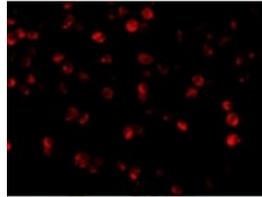


Beclin-1 Antibody

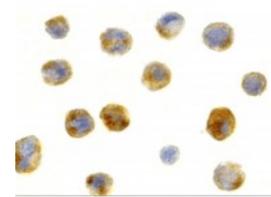
Cat. No.: 3611



Western blot analysis of Beclin-1 in A431 cell lysate with Beclin-1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunofluorescence of Beclin-1 in A431 cells with Beclin-1 antibody at 2 ug/mL.



Immunocytochemistry staining of A431 cells using Beclin-1 antibody at 1 ug/mL.

Ψ SPECIFICATIONS

HOST SPECIES:	Rabbit
SPECIES REACTIVITY:	Human, Mouse
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Chicken: (100%), Pig: (100%), Rat: (100%), Bovine: (100%)
IMMUNOGEN:	Beclin-1 antibody was raised against a 16 amino acid synthetic peptide from near the carboxy terminus of human Beclin-1. The immunogen is located within the last 50 amino acids of Beclin-1.
TESTED APPLICATIONS:	ELISA, ICC, IF, WB
APPLICATIONS:	Beclin-1 antibody can be used for the detection of Beclin-1 by Western blot at 0.5 - 2 ug/mL. Antibody can also be used for immunocytochemistry starting at 1 ug/mL. For immunofluorescence start at 2 ug/mL. Antibody validated: Western Blot in human samples; Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
POSITIVE CONTROL:	1) Cat. No. 1202 - A431 Cell Lysate 2) Cat. No. 17-002 - A-431 Cell Slide

Ψ PROPERTIES

PURIFICATION:	Beclin-1 Antibody is affinity chromatography purified via peptide column.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated
PHYSICAL STATE:	Liquid
BUFFER:	Beclin-1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	Beclin-1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Ψ ADDITIONAL INFO

OFFICIAL SYMBOL:	BECN1
ALTERNATE NAMES:	Beclin-1 Antibody: ATG6, VPS30, beclin1, GT197, Beclin-1, Coiled-coil myosin-like BCL2-interacting protein
ACCESSION NO.:	AAH10276
PROTEIN GI NO.:	16307457
GENE ID:	8678
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.

Ψ BACKGROUND AND REFERENCES

BACKGROUND:	Beclin-1 Antibody: 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. Beclin-1, a coiled-coil Bcl-2-interacting protein homologous to the yeast autophagy gene <i>apg6</i> , is a mammalian autophagy gene that can inhibit tumorigenesis and is expressed at reduced levels in human breast carcinoma, suggesting that defects in autophagy proteins may contribute to the development or progression of tumors. Bcl-2 can bind to Beclin-1 and inhibit Beclin-1-dependent autophagy in yeast and mammalian cells, suggesting that Bcl-2 functions as an anti-autophagy protein as well as an anti-apoptotic protein, which helps maintain autophagy at levels that are more compatible with cell survival rather than cell death.
REFERENCES:	<ol style="list-style-type: none">1) Gozuacik D and Kimchi A. Autophagy as a cell death and tumor suppressor mechanism. <i>Oncogene</i>. 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. <i>Carcinogenesis</i> 1993; 14:2501-5.3) Liang XH, Kleeman LK, Jiang HH, et al. Protection against fatal Sindbis virus encephalitis by Beclin, a novel Bcl-2-interacting protein. <i>J. Virol.</i> 1998; 72:8586-96.4) Kametaka S, Okano T, Ohsumi M, et al. Apg14p and Apg6/Vps30p form a protein complex essential for autophagy in the yeast <i>Saccharomyces cerevisiae</i>. <i>J. Biol. Chem.</i> 1998; 273:22284-91.

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