Datasheet for ABIN497971

anti-Beclin 1 antibody (N-Term)

2 Images

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Overview

Quantity:	0.1 mg
Target:	Beclin 1 (BECN1)
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Beclin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Beclin-1 antibody was raised against a 17 amino acid peptide from near the amino terminus of Human Beclin-1.
Isotype:	IgG
Specificity:	Recognizes Beclin-1 (N-term).
Purification:	Immunoaffinity Chromatography

Target Details

Target:	Beclin 1 (BECN1)
Alternative Name:	Beclin-1 (BECN1 Products)

Target Details

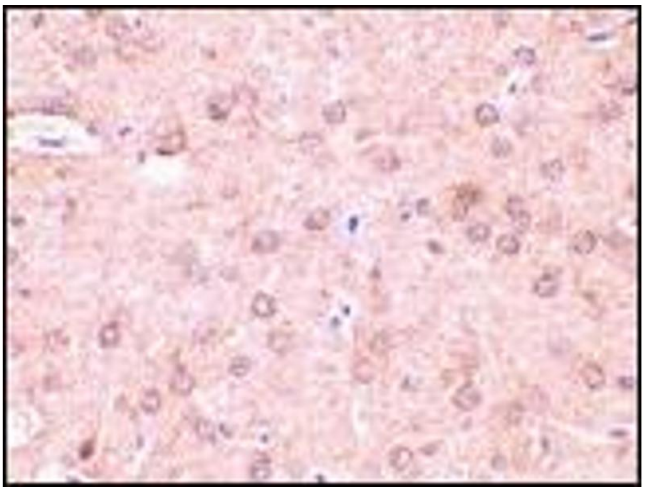
Background:	Autophagy, the process of bulk degradation of cellular proteins through an autophagosomic-lysosomal pathway is important for normal growth control and may be defective in tumor cells (1,2). Beclin-1, a coiled-coil Bcl-2-interacting protein homologous to the yeast autophagy gene apg6 (3,4), 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 (5). 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 (6).Synonyms: BECN1, Coiled-coil myosin-like BCL2-interacting protein, GT197, Protein GT197
Gene ID:	8678
NCBI Accession:	NP_003757
UniProt:	Q14457
Pathways:	Autophagy

Application Details

Application Notes:	ELISA. Western blot: Beclin-1 antibody can be used for the detection of Beclin-1 at 0.5-1 µg/mL. Positive Control: 293 Cell Lysate. Immunohistochemistry on Paraffin Sections. Positive Control: Rat Brain Tissue. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

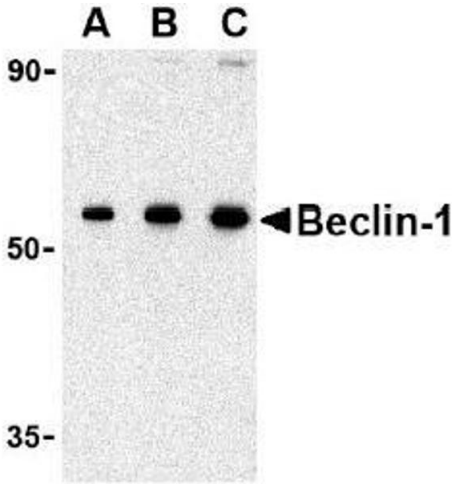
Handling

Buffer:	PBS containing 0.02 % Sodium Azide as preservative
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store undiluted at 2-8 °C. Antibodies should not be exposed to prolonged high temperatures.



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. AP20054PU-N Beclin-1 antibody staining of Rat brain tissue by Immunohistochemistry at 2 µg/ml.



Western Blotting

Image 2. AP20054PU-N Beclin-1 antibody staining of 293 cell lysate by Western Blotting at (A) 0.5, (B) 1 and (C) 2 µg/ml.