

Beclin-1 Antibody

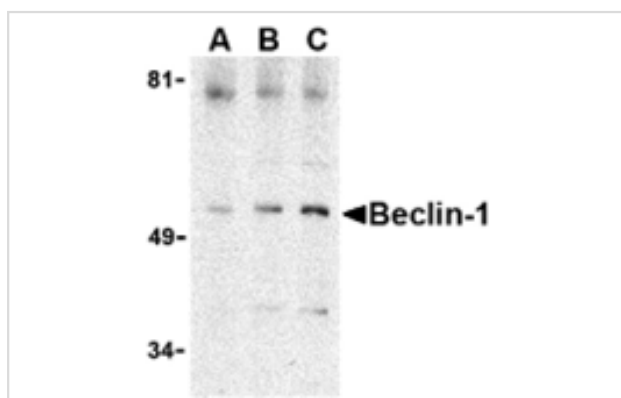
Catalog No: #24351

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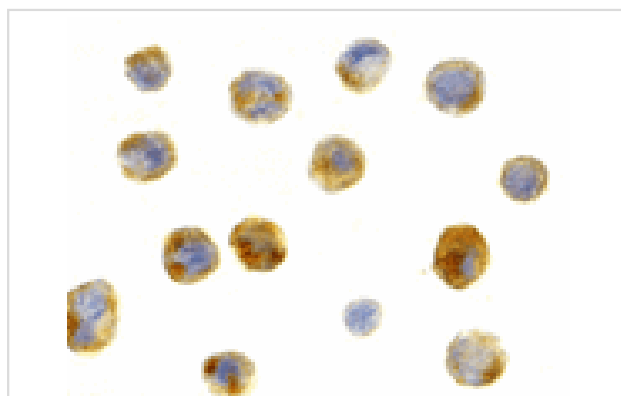
Description

| | |
|-----------------------|---|
| Product Name | Beclin-1 Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Affinity chromatography purified via peptide column |
| Applications | ELISA WB ICC |
| Species Reactivity | Hu Ms |
| Immunogen Type | Peptide |
| Immunogen Description | Raised against a 16 amino acid peptide from near the carboxy terminus of human Beclin-1. |
| Target Name | Beclin-1 |
| Other Names | Coiled-coil myosin-like Bcl-2-interacting protein |
| Accession No. | Swiss-Prot:Q14457 Gene ID:8678 |
| Uniprot | Q14457 |
| GeneID | 8678; |
| Concentration | 1mg/ml |
| Formulation | Supplied in PBS containing 0.02% sodium azide. |
| Storage | Can be stored at -20°C, stable for 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. |

Images



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.



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

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. Beclin-1, a coiled-coil Bcl-2-interacting protein homologous to the yeast autophagy gene *apg6*, 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.

Note: This product is for in vitro research use only