

Rabbit anti-Mouse, Rat BECLIN-1 Polyclonal Antibody | anti-Becn1 antibody

RABBIT ANTI BECLIN-1 (N-TERMINAL)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA49911	Rabbit	Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

BECLIN-1; Polyclonal Antibody; RABBIT ANTI BECLIN-1 (N-TERMINAL); anti-Becn1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	This item recognises an epitope within the N-terminal region of Beclin-1, a 52kDa coiled-coil protein which shares structural homology with the yeast autophagy gene apg6/vps30. The ability of cells to undergo bulk degradation of endogenous proteins through an autophagosomic-lysosomal pathway, termed autophagy or Type II cell death, is important in the control of cell growth and development. Studies have identified Beclin-1 as a Bcl-2 interacting mammalian gene which not only mediates autophagy, but also functions as a tumour suppressor, being expressed at reduced levels in human breast carcinoma, and may also play a role in defense against viral infection. An increasing number of studies have revealed an interaction between proteins which induce autophagy and those involved in apoptosis and in some instances apoptosis may be dependant upon or delayed by autophagy.
Form/Format	Purified Purified IgG - liquid
Concentration	IgG concentration 1.0mg/ml (varies by lot)
Sequence Length	448
Applicable Applications for anti-Becn1 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Perservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Immunogen	A 17 amino acid peptide located near human Beclin-1 amino-terminus. Buffer Solution
Antiserum Preparation	Antisera to human Beclin-1 (NT) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Target Species	Human
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.

IMAGES



Application Data

Formalin fixed, paraffin embedded rat brain stained with Rabbit anti Human beclin-1 (AAA49911) following heat mediated antigen retrieval using sodium citrate buffer (pH6.0



Application Data

Western blot analysis of whole cell lysate from HEK293 human eptihelial kidney cells probed with Rabbit anti Human beclin-1 (AAA49911) at 0.5(A), 1(B) and 2(C) ug/ml

ADDITIONAL INFORMATION

Related Product Information for anti-Becn1 antibody

MBS221318 recognises an epitope within the N-terminal region of Beclin-1, a 52kDa coiled-coil protein which shares structural homology with the yeast autophagy gene apg6/vps30. The ability of cells to undergo bulk degradation of endogenous proteins through an autophagosomic-lysosomal pathway, termed autophagy or Type II cell death, is important in the control of cell growth and development. Studies have identified Beclin-1 as a Bcl-2 interacting mammalian gene which not only mediates autophagy, but also functions as a tumour suppressor, being expressed at reduced levels in human breast carcinoma, and may also play a role in defense against viral infection. An increasing number of studies have revealed an interaction between proteins which induce autophagy and those involved in apoptosis and in some instances apoptosis may be dependant upon or delayed by autophagy.

NCBI AND UNIPROT INFORMATION

NCBI GI #	77628041
NCBI GeneID	114558
NCBI Accession #	NP_001029289.1
NCBI GenBank Nucleotide #	NM_001034117.1
Molecular Weight	51,557 Da
NCBI Official Full Name	beclin-1
NCBI Official Synonym Full Names	beclin 1, autophagy related
NCBI Official Symbol	Becn1
NCBI Protein Information	beclin-1; beclin 1 (coiled-coil, myosin-like BCL2-interacting protein); coiled-coil myosin-like BCL2-interacting protein
UniProt Protein Name	Beclin-1
UniProt Gene Name	Becn1
UniProt Entry Name	BECN1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.