

Rabbit anti-Human Beclin1 (Ser295) Polyclonal Antibody | anti-BECN1 antibody

Anti-Phospho-Ser295 Beclin-1

CATALOG # AAA72824	HOST Rabbit	REACTIVITY Human	APPLICATIONS Western Blot
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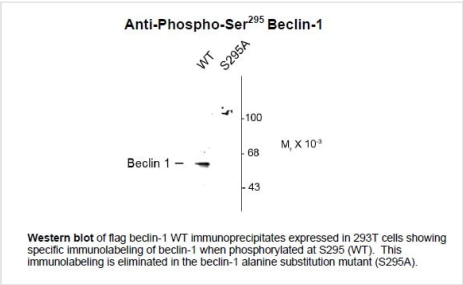
PRODUCT SYNONYMS

Beclin1 (Ser295); Polyclonal Antibody; Anti-Phospho-Ser295 Beclin-1; anti-BECN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Specificity	Specific for the ~60k beclin1 protein phosphorylated at Ser295. Immunolabeling of the beclin-1 band is eliminated in the beclin-1 alanine substitution mutant.
Purity/Purification	Affinity Purified (Prepared from rabbit serum by affinity purification via sequential chromatography on phospho- and dephosphopeptide affinity columns.)
Form/Format	100 ul in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 ug per ml BSA and 50% glycerol.
Sequence Length	450
Applicable Applications for anti-BECN1 antibody	WB (Western Blot)
Antigen	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser295 of human beclin-1.
Immunogen Information	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser295 conjugated to KLH
Immunogen Species	Human
Reactivity Assumed Based on 100% Sequence Homology	Bovine, canine, chicken, mouse, non-human primate, sheep, Xenopus, zebrafish
Species Reactivity Note	The antibody has been directly tested for reactivity in Western blots with recombinant HeLa and 293T cells. It is anticipated that the antibody will react with bovine/canine, chicken, mouse, non-human primate, sheep, Xenopus, and zebra fish tissues based on the fact that these species have 100% homology with the amino acid sequence used as antigen.
Biological Significance	Beclin-1 plays a key role in tumor suppression and autophagy. It has been suggested that autophagy proteins such as beclin-1 can inhibit tumorigenesis and that decreased expression of these proteins may contribute to the development of human malignancies (Liang et al., 1999). Akt-mediated phosphorylation of beclin-1 at Ser295 has been shown to decrease autophagy and promote oncogenesis (Wang et al., 2012).
Preparation and Storage	For long term storage -80 degree C is recommended, but shorter term storage at -20 degree C is acceptable as aliquots may be taken without freeze/thawing due to the presence of 50% glycerol. Stock solutions are stable for a minimum of 1 year at -20 degree C.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-BECN1 antibody	Affinity purified rabbit polyclonal antibody
References	• Liang, XH, Jackson S, Seaman M, Brown K, Kempkes B, Hibshoosh H, Levine B. (1999) Induction of autophagy and inhibition of tumorigenesis by beclin-1. Nature 402(6762):672-676. • Richard C. Wang, Yongjie Wei, Zhenyi An, Zhongju Zou, Guanghua Xiao, Govind Bhagat, Michael White, Julia Reichelt, and Beth Levine (2012) Akt-Mediated Regulation of Autophagy and Tumorigenesis Through Beclin 1 Phosphorylation. Science 338:956-959.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502395
NCBI GeneID	8678
NCBI Accession #	NP_003757.1
NCBI GenBank Nucleotide #	NM_003766.3
UniProt Accession #	Q14457; O75595; Q9UNA8; B2R6N7
Molecular Weight	60
NCBI Official Full Name	beclin-1
NCBI Official Synonym Full Names	beclin 1, autophagy related
NCBI Official Symbol	BECN1
NCBI Official Synonym Symbols	ATG6; VPS30; beclin1
NCBI Protein Information	beclin-1; ATG6 autophagy related 6 homolog; coiled-coil myosin-like BCL2-interacting protein; beclin 1 (coiled-coil, moesin-like BCL2 interacting protein); beclin 1 (coiled-coil, moesin-like BCL2-interacting protein)
UniProt Protein Name	Beclin-1
UniProt Gene Name	BECN1
UniProt Synonym Gene Names	GT197
UniProt Entry Name	BECN1_HUMAN

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.