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PRODUCT DATASHEET

Anti-Beclin1 (Ser295) Antibody

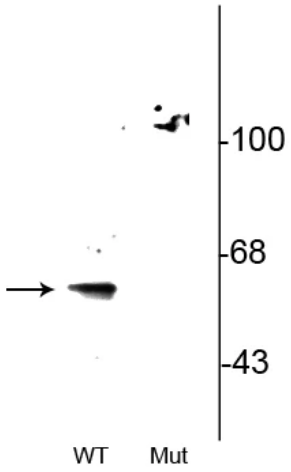
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

Available Variants	100 µL (SKU:p117-295) 25 µL (SKU:p117-295t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	BECN1
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, WB
Dilution Ranges	WB: 1:250
Species Reactivity	Human, Mouse, Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser295 of human beclin-1, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~60 kDa beclin1 protein phosphorylated at Ser295. Immunolabeling of the beclin-1 band is eliminated in the beclin-1 alanine substitution mutant.
Molecular Weight	60 kDa
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2492048
UniProt ID	Q14457 UniProt Summary: Plays a central role in autophagy (PubMed:18570871, PubMed:21358617, PubMed:23184933, PubMed:23974797, PubMed:25484083, PubMed:28445460, PubMed:37776275). Acts as a core subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20208530, PubMed:20643123, PubMed:23974797, PubMed:26783301). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:25275521). May play a role in antiviral host defense. {ECO:0000269|PubMed:18570871, ECO:0000269|PubMed:20208530, ECO:0000269|PubMed:20643123, ECO:0000269|PubMed:21358617, ECO:0000269|PubMed:23184933, ECO:0000269|PubMed:23974797, ECO:0000269|PubMed:25275521, ECO:0000269|PubMed:25484083, ECO:0000269|PubMed:26783301, ECO:0000269|PubMed:28445460, ECO:0000269|PubMed:37776275, ECO:0000269|PubMed:9765397}.; Beclin-1-C 35 kDa localized to mitochondria can promote apoptosis; it induces the mitochondrial translocation of BAX and the release of proapoptotic factors. {ECO:0000269|PubMed:21364619, ECO:0000269|PubMed:26263979}.; (Microbial infection) Protects against infection by a neurovirulent strain of Sindbis virus. {ECO:0000269|PubMed:9765397}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Bovine, Canine, Chicken, Human, Non-Human Primate, Xenopus, Zebrafish
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser295
NCBI Gene ID	8678

Product Images



Western blot of wild type (WT) beclin-1 expressed in HeLa cell lysate showing specific immunolabeling of beclin-1 phosphorylated at Ser295. This immunolabeling is eliminated in the beclin-1 alanine substitution mutant (S295A: Mut) expressed in HeLa cell lysate.