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Phospho-beclin 1(S64) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3836a

Specification

Phospho-beclin 1(S64) Antibody - Product Information

Application	**DB,E**
Primary Accession	Q14457
Other Accession	NP_003757.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Calculated MW	**51896**

Phospho-beclin 1(S64) Antibody - Additional Information

Gene ID 8678

Other Names
Beclin-1, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197, BECN1, GT197

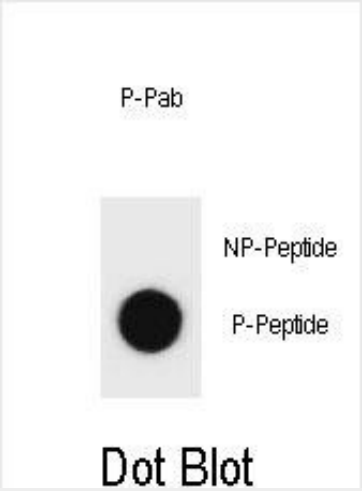
Target/Specificity
This beclin 1 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S64 of human beclin 1.

Dilution
DB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-beclin 1(S64) Antibody is for



Dot blot analysis of beclin 1 Antibody (Phospho S64) Phospho-specific Pab (Cat. #AP3836a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-beclin 1(S64) Antibody - Background

Beclin-1 participates in the regulation of autophagy and
has an important role in development, tumorigenesis, and
neurodegeneration (Zhong et al., 2009 [PubMed 19270693]).[supplied by OMIM].

Phospho-beclin 1(S64) Antibody - References

Koukourakis, M.I., et al. Br. J. Cancer 103(8):1209-1214(2010)
Jaeger, P.A., et al. Arch. Neurol. 67(10):1181-1184(2010)
Metzger, S., et al. Hum. Genet. 128(4):453-459(2010)
Oberstein, A., et al. J. Biol. Chem.

research use only and not for use in diagnostic or therapeutic procedures.

282(17):13123-13132(2007)
Furuya, N., et al. Autophagy 1(1):46-52(2005)

Phospho-beclin 1(S64) Antibody - Protein Information

Name BECN1

Synonyms GT197

Function
Plays a central role in autophagy (PubMed:23184933, PubMed:28445460). Acts as 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 abcission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530, PubMed:26783301). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:25275521). Protects against infection by a neurovirulent strain of Sindbis virus (PubMed:9765397). May play a role in antiviral host defense.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:O88597, ECO:0000269|PubMed:19713971, ECO:0000269|PubMed:21364619}. Golgi apparatus, trans-Golgi network membrane; Peripheral membrane protein. Endosome

membrane; Peripheral membrane protein. Endoplasmic reticulum membrane; Peripheral membrane protein. Mitochondrion membrane; Peripheral membrane protein. Endosome {ECO:0000250|UniProtKB:O88597} Cytoplasmic vesicle, autophagosome. Note=Interaction with ATG14 promotes translocation to autophagosomes. Expressed in dendrites and cell bodies of cerebellar Purkinje cells (By similarity) {ECO:0000250|UniProtKB:O88597, ECO:0000269|PubMed:19050071} [Beclin-1-C 37 kDa]: Mitochondrion {ECO:0000250|UniProtKB:O88597}

Tissue Location
Ubiquitous.

Phospho-beclin 1(S64) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture