

Phospho-beclin 1(S64) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP3836a

Product Information

Application WB, DB, E **Primary Accession** Q14457 **Other Accession** NP 003757.1 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB41700 **Calculated MW** 51896

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 WB~~1:1000 DB~~1:500 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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 research use only and not for use in

diagnostic or therapeutic procedures.

Protein Information

Name BECN1

Synonyms GT197

Function 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.

Cellular Location

Cytoplasm. 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:088597}

Tissue Location

Ubiquitous.

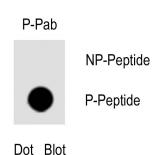
Background

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].

References

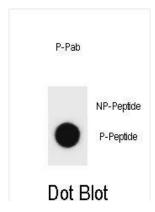
Koukourakis, M.I., et al. Br. J. Cancer 103(8):1209-1214(2010) Jaeger, P.A., et al. Arch. Neurol. 67(10):1181-1184(2010) Metzger, S., et al. Hum. Genet. 128(4):453-459(2010) Oberstein, A., et al. J. Biol. Chem. 282(17):13123-13132(2007) Furuya, N., et al. Autophagy 1(1):46-52(2005)

Images



Dot blot analysis of Phospho-beclin1(S64)Antibody Phospho-specific Pab (Cat. AP3836a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antobodies working concentration was 0. 5ug per ml.

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.