

**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 | <a href="#">Q14457</a>      |
| Other Accession   | <a href="#">NP_003757.1</a> |
| 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**

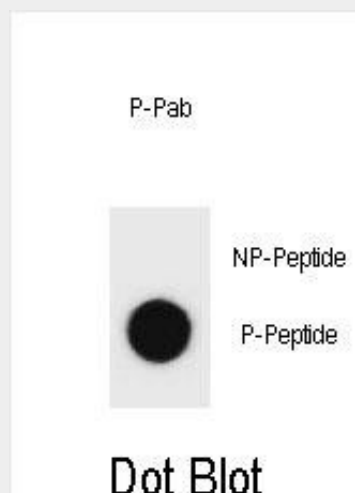
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**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:<a href="http://www.uniprot.org/citations/23184933" target="\_blank">23184933</a>, PubMed:<a href="http://www.uniprot.org/citations/28445460" target="\_blank">28445460</a>). 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 abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:<a href="http://www.uniprot.org/citations/20643123" target="\_blank">20643123</a>, PubMed:<a href="http://www.uniprot.org/citations/20208530" target="\_blank">20208530</a>, PubMed:<a href="http://www.uniprot.org/citations/26783301" target="\_blank">26783301</a>). Essential for the formation of PI3KC3-C2 but not PI3KC3-C1 PI3K complex forms. Involved in endocytosis (PubMed:<a href="http://www.uniprot.org/citations/25275521" target="\_blank">25275521</a>). Protects against infection by a neurovirulent strain of Sindbis virus (PubMed:<a href="http://www.uniprot.org/citations/9765397" target="\_blank">9765397</a>). 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 Cytometry](#)
- [Cell Culture](#)