

Beclin 1 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13795a

Product Information

Application WB, IF, E Primary Accession Q14457

Other Accession 06GP52, 091XI1, 04A1L5, 088597, 05ZKS6, 04A1L4, NP 003757.1

Reactivity Human

Predicted Bovine, Chicken, Mouse, Pig, Rat, Xenopus

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB34164Antigen Region100-123

Additional Information

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 peptide between 100-123 amino acids from human

Beclin 1.

Dilution WB~~1:1000 IF~~1:100 E~~Use at an assay dependent concentration.

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.

PrecautionsBeclin 1 Antibody is for research use only and not for use in diagnostic or

therapeutic procedures.

Protein Information

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

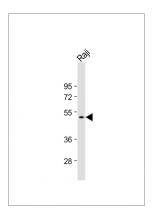
References for protein:

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

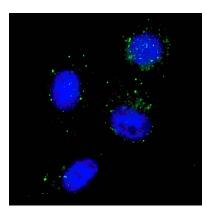
References for U251 cell line:

- 1. Westermark B.; Pontén J.; Hugosson R. (1973)." Determinants for the establishment of permanent tissue culture lines from human gliomas". Acta Pathol Microbiol Scand A. 81:791-805. [PMID: 4359449].
- 2. Pontén, J., Westermark B. (1978)." Properties of Human Malignant Glioma Cells in Vitro". Medical Biology 56: 184-193. [PMID: 359950].
- 3. Geng Y.; Kohli L.; Klocke B.J.; Roth K.A.(2010). "Chloroquine-induced autophagic vacuole accumulation and cell death in glioma cells is p53 independent". Neuro Oncol. 12(5): 473–481. [PMID: 20406898].

Images



Anti-Beclin 1 Antibody at 1:2000 dilution + Raji whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 52 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Fluorescent image of U251 cells stained with Beclin 1 antibody. U251 cells were treated with Chloroquine (50 µM,16h), then fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AP13795a Beclin 1 primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/ml, 5 min). Beclin1 immunoreactivity is localized to autophagic vacuoles in the cytoplasm of U251 cells.

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