

Anti-Becn1 1 Antibody

R1510-8



Product Type:	Rabbit polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse
Applications:	IF-Cell, IHC-P, FC
Molecular Wt:	52 kDa

Description: BECN1 (Becn1 1) is a coiled-coil protein that has been implicated as an inhibitor of tumorigenesis. BECN1, which associates with Bcl-2, plays a significant role in autophagy. Autophagy is the degradation of cellular proteins in the lysosomes, and when this pathway is suppressed, cell growth is deregulated. Autophagy is controlled by the same signal transduction pathway that induces the phosphorylation of the Ribosomal Protein S6, and both are mediated via amino acids. BECN1 expression in various carcinoma cell lines such as MCF7 is low, whereas it is ubiquitously expressed in normal breast tissue. In transfected MCF7 cells, BECN1 complements autophagocytosis and, subsequently, inhibits cellular proliferation. Additionally, BECN1 shares structural similarity to the yeast autophagy gene product, Apg6, and was one of the first mammalian proteins discovered to mediate autophagy.

Immunogen: Synthetic peptide within N-terminal human BECN1.

Positive control: HeLa, N2A, MCF-7, SHG-44, human liver cancer tissue, human breast tissue, human lung tissue, human kidney tissue, mouse brain tissue, mouse heart tissue, HepG2.

Subcellular location: Cytoplasm, Endosome, Mitochondrion membrane Mitochondrion membrane, Endoplasmic reticulum membrane

Database links: SwissProt: Q14457 Human | O88597 Mouse

Recommended Dilutions:

IF-Cell	1:50-1:200
IHC-P	1:50-1:200
FC	1:50-1:100

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

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Technical:0086-571-89986345

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Images

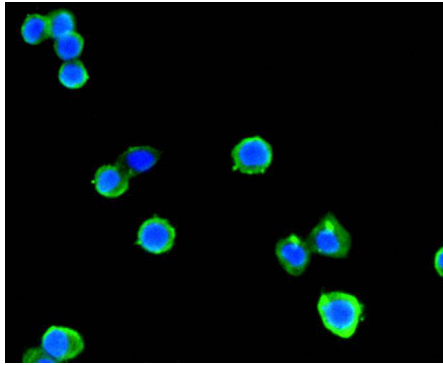


Fig1: Immunocytochemical staining of N2A cells using anti-BECN1 rabbit polyclonal antibody.

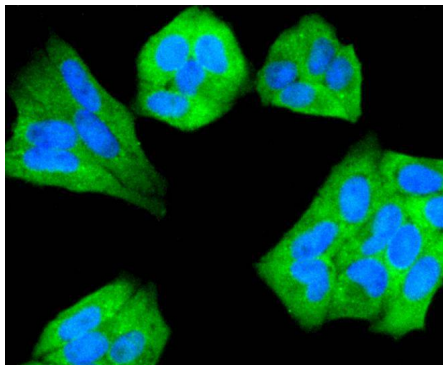


Fig2: Immunocytochemical staining of HeLa cells using anti-BECN1 rabbit polyclonal antibody.

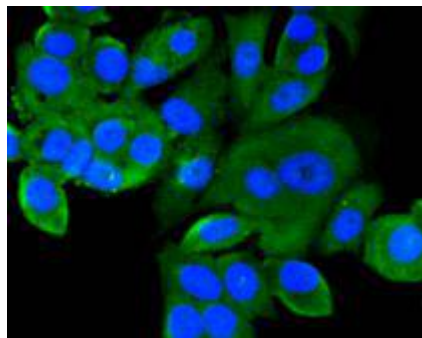


Fig3: Immunocytochemical staining of MCF-7 cells using anti-BECN1 rabbit polyclonal antibody.

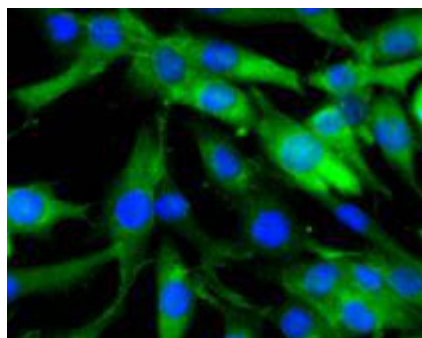


Fig4: Immunocytochemical staining of SHG-44 cells using anti-BECN1 rabbit polyclonal antibody.

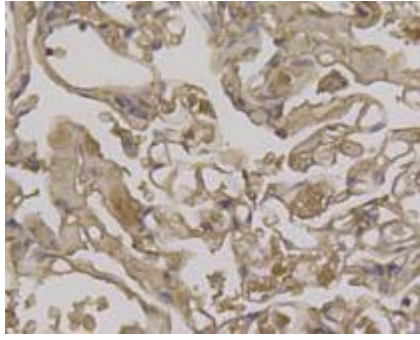


Fig5: Immunohistochemical analysis of paraffin- embedded human lung tissue using anti-BECN1 rabbit polyclonal antibody.

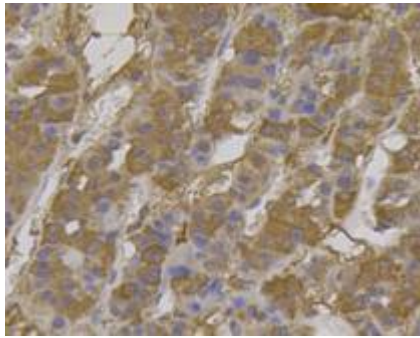


Fig6: Immunohistochemical analysis of paraffin- embedded human liver cancer tissue using anti-BECN1 rabbit polyclonal antibody.

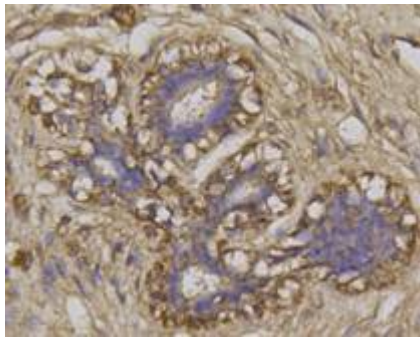


Fig7: Immunohistochemical analysis of paraffin- embedded human breast tissue using anti-BECN1 rabbit polyclonal antibody.

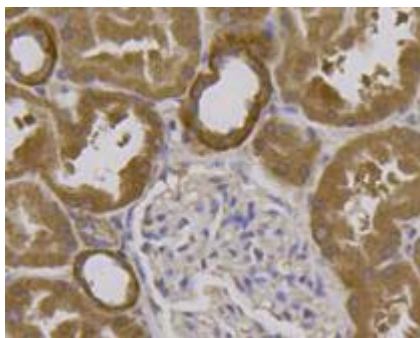


Fig8: Immunohistochemical analysis of paraffin- embedded human kidney tissue using anti-BECN1 rabbit polyclonal antibody.

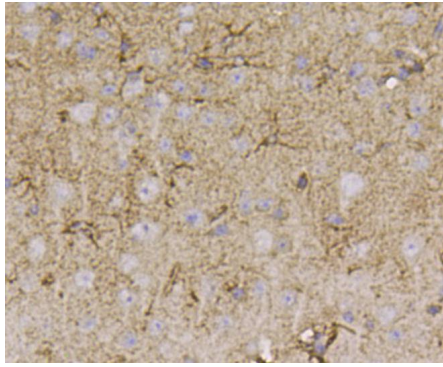


Fig9: Immunohistochemical analysis of paraffin- embedded mouse brain tissue using anti-BECN1 rabbit polyclonal antibody.

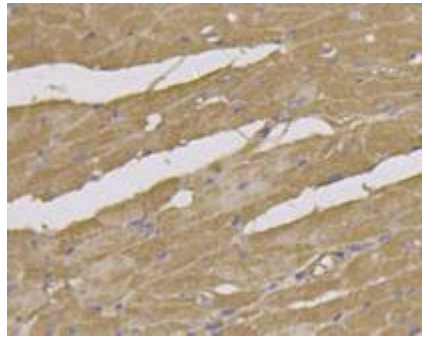


Fig10: Immunohistochemical analysis of paraffin- embedded mouse heart tissue using anti-BECN1 rabbit polyclonal antibody.

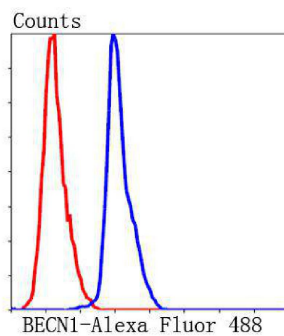


Fig11: Flow cytometric analysis of HepG2 cells with BECN1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated Goat anti rabbit IgG was used as the secondary antibody.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Chen GY et al. Graphene oxide triggers toll-like receptors/autophagy responses in vitro and inhibits tumor growth in vivo. *Adv Healthc Mater* 3:1486-95 (2014).
2. Abdulrahman BA et al. Depletion of the ubiquitin-binding adaptor molecule SQSTM1/p62 from macrophages harboring cfr F508 mutation improves the delivery of Burkholderia cenocepacia to the autophagic machinery. *J Biol Chem* 288:2049-58 (2013).

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