

Anti-Beclin 1/BECN1 Antibody Picoband®

Catalog Number: PA1847

About BECN1

Bellini-1 (beclin 1, autophagy related) is a protein that in humans is encoded by the BECN1 gene, also known as BECN1, ATG6, VPS30, Coiled-coil myosin-like BCL2-interacting protein, Protein GT197, autophagy-related gene (Atg) 6. Beclin-1 and its binding partner class III phosphoinositide 3-kinase (PI3K), also named Vps34, are required for the initiation of the formation of the autophagosome in autophagy. Human beclin encodes a novel 450-amino acid protein containing a coiled-coil region, within which it has limited homology to myosin-like proteins. Northern blot analysis of mouse and adult human tissues revealed widespread beclin expression. A 2.2-kb transcript was present at highest levels in human skeletal muscle and at detectable levels in all tissues examined. In some tissues, additional 1.7- and 1.4-kb transcripts were observed, suggesting the presence of alternatively spliced transcripts. Immunoperoxidase staining of human hippocampus and frontal cortex sections revealed beclin immunoreactivity in many neurons throughout these regions, as well as in some glial cells. Beclin protects against infection by a neurovirulent strain of Sindbis virus that is known to overcome the protective effects of Bcl2. Liang et al. showed that beclin reduced Sindbis virus replication in mouse brain and reduced Sindbis virus-induced cell death in mouse brain.

Overview

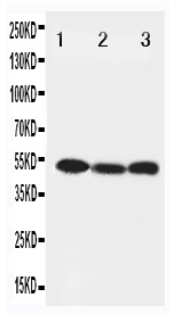
Product Name	Anti-Beclin 1/BECN1 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Beclin 1/BECN1 Antibody catalog # PA1847. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q14457

Technical Details

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Immunogen	A synthetic peptide corresponding to a sequence in the middle region of human Beclin 1, identical to the related rat and mouse sequences.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

Anti-Beclin 1/BECN1 Antibody Picoband® (PA1847) Images



Anti-Beclin 1 antibody, PA1847, Western blotting
Lane 1: HELA Cell Lysate
Lane 2: SW620 Cell Lysate
Lane 3: PANC Cell Lysate

8 Publications Citing This Product

1. PubMed ID: 33529908, Ni K, Hua Y. Hydrogen sulfide exacerbated periodontal inflammation and induced autophagy in experimental periodontitis. *Int Immunopharmacol.* 2021 Jan 30;93:107399. doi:10.1016/j.intimp.2021.107399. Epub ahead of print. PMID:33529908.
2. PubMed ID: 31900522, Song L, Yao L, Zhang L, Piao Z, Lu Y. Schizandrol A protects against Aβ₁₋₄₂-induced autophagy via activation of PI3K/AKT/mTOR pathway in SH-SY5Y cells and primary hippocampal neurons. *Naunyn Schmiedeberg Arch Pharmacol.* 2020 Sep;393(9):1739-1752. doi:10.1007/s00
3. PubMed ID: 27464624, Bifidobacterial recombinant thymidine kinase-ganciclovir gene therapy system induces FasL and TNFR2 mediated antitumor apoptosis in solid tumors

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