Datasheet for ABIN3044080

anti-Beclin 1 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	Beclin 1 (BECN1)
Binding Specificity:	AA 222-237, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Beclin 1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-Beclin 1/BECN1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Beclin 1, identical to the related rat and mouse sequences.
Sequence:	LDQEEAQYQR EYSEFK
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Beclin 1/BECN1 Antibody (ABIN3044080). 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	Beclin 1 (BECN1)
Alternative Name:	BECN1 (BECN1 Products)
Background:	Synonyms: Beclin-1;Coiled-coil myosin-like BCL2-interacting protein;Protein GT197;BECN1;GT197; Tissue Specificity: Ubiquitous. Background: 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.
Molecular Weight:	46 kDa
UniProt:	Q14457
Pathways:	Autophagy

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat 1. Liang, X. H., Kleeman, L. K., Jiang, H. H., Gordon, G., Goldman, J. E., Berry, G., Herman, B., Levine, B.Protection against fatal Sindbis virus encephalitis by beclin, a novel Bcl-2-interacting protein. J. Virol. 72: 8586-8596, 1998.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months

Publications

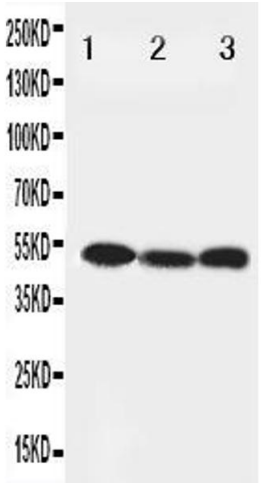
Product cited in:	Qi, Xue, Lv, Sun, Du, Cai, Li, Gu, Wang: "Ginkgolic acids induce HepG2 cell death via a combination of apoptosis, autophagy and the mitochondrial pathway." in: **Oncology letters**, Vol. 15, Issue 5, pp. 6400-6408, (2018) (PubMed). Shen, Cai, Liu, Li, Gan, Li, Wang, Guo, Zhou, Lu, Sun, Li: "Ube2v1-mediated ubiquitination and degradation of Sirt1 promotes metastasis of colorectal cancer by epigenetically suppressing autophagy." in: **Journal of hematology & oncology**, Vol. 11, Issue 1, pp. 95, (2018) (PubMed). Wang, Ma, Hu, Xie, Wu, Zeng, Song: "Bifidobacterial recombinant thymidine kinase-ganciclovir gene therapy system induces FasL and TNFR2 mediated antitumor apoptosis in solid tumors." in: **BMC cancer**, Vol. 16, pp. 545, (2017) (PubMed). Sun, Gao, Meng, Xu, Wang, Gu, Guo, Shao, Yan, Jiang, Zheng: "Antagomirs Targeting MiroRNA-

Publications

134 Attenuates Epilepsy in Rats through Regulation of Oxidative Stress, Mitochondrial Functions and Autophagy." in: **Frontiers in pharmacology**, Vol. 8, pp. 524, (2017) (PubMed).

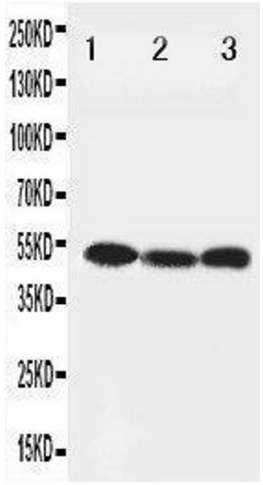
Bu, Zhao, Zhang, Wang, Li, Yan: "Recombinant Newcastle disease virus (rL-RVG) triggers autophagy and apoptosis in gastric carcinoma cells by inducing ER stress." in: **American journal of cancer research**, Vol. 6, Issue 5, pp. 924-36, (2016) (PubMed).

Validation report #300031 for Immunohistochemistry (IHC)



Western Blotting

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



Western Blotting

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