

Datasheet for ABIN3030154

anti-Beclin 1 antibody (AA 222-237)



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2 Images

Overview

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

Product Details

Immunogen:	Amino acids 222-237 (LDQEEAQYQREYSEFK) were used as the immunogen for this Beclin 1 antibody (100% homologous in human, mouse and rat).
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	Beclin 1 (BECN1)
Alternative Name:	Beclin 1 (BECN1 Products)
Background:	Bellini-1 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 6 (ATG6). Beclin 1 and its binding partner class III phosphoinositide 3-kinase

Target Details

(PI3K), also named Vps34, are required for the initiation of the formation of the autophagosome in autophagy. The gene 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 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 1 immunoreactivity in many neurons throughout these regions, as well as in some glial cells. It 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 1 reduced Sindbis virus replication in mouse brain and reduced Sindbis virus-induced cell death in mouse brain.

UniProt:	Q14457
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Pathways:	Autophagy
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Application Details

Application Notes:	Titration of the Beclin 1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL
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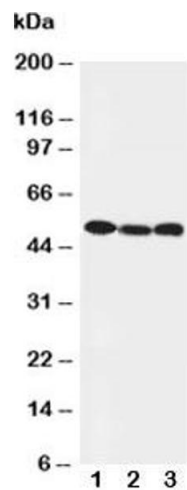
Restrictions:	For Research Use only
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Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
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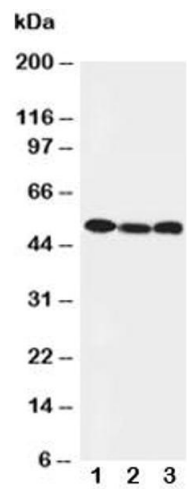
Storage:	-20 °C
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Storage Comment:	Store the lyophilized Beclin 1 antibody at 4°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freezing and thawing.
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Western Blotting

Image 1. Western blot testing of Beclin 1 antibody and Lane 1: HeLa; 2: SW620; 3: PANC cell lysate. Predicted and Observed size: 49KD



Western Blotting

Image 2. Western blot testing of Beclin 1 antibody and Lane 1: HeLa