

Datasheet for ABIN3042322

anti-Beclin 1 antibody (AA 1-354)

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Overview

Quantity:	100 µg
Target:	Beclin 1 (BECN1)
Binding Specificity:	AA 1-354
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Beclin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Beclin-1(BECN1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human Beclin 1 recombinant protein (Position: M1-S354). Human Beclin 1 shares 97% amino acid (aa) sequence identity with both mouse and rat Beclin 1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Beclin-1(BECN1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: beclin 1, autophagy related</p> <p>Protein Name: Beclin-1</p>
Purification:	Immunogen affinity purified.

Target Details

Target:	Beclin 1 (BECN1)
Alternative Name:	BECN1 (BECN1 Products)
Background:	<p>Beclin-1, also known as also known as ATG6 or VPS30 is a protein that in humans is encoded by the BECN1 gene. 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. This gene participates in the regulation of autophagy and has an important role in development, tumorigenesis, and neurodegeneration. Schizophrenia is associated with low levels of Beclin-1 in the hippocampus of the affected which causes diminished autophagy which in turn results in increased neuronal cell death. It has been found that beclin-1 can promote autophagy in autophagy-defective yeast with a targeted disruption of apg6/vps30, and in human MCF7 breast carcinoma cells.</p> <p>Synonyms: APG6 antibody ATG 6 antibody ATG6 antibody ATG6 autophagy related 6 homolog antibody Bcl-2-interacting protein beclin antibody Beclin 1 (coiled coil moesin like BCL2 interacting protein) antibody Beclin 1 autophagy related antibody Beclin-1 antibody Beclin1 antibody BECN 1 antibody BECN1 antibody BECN1_HUMAN antibody Coiled coil myosin like BCL2 interacting protein antibody Coiled-coil myosin-like BCL2-interacting protein antibody GT197 antibody Protein GT197 antibody VPS 30 antibody VPS30 antibody</p>
Gene ID:	8678
UniProt:	Q14457
Pathways:	Autophagy

Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for Beclin 1 is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.</p> <p>Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

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 Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

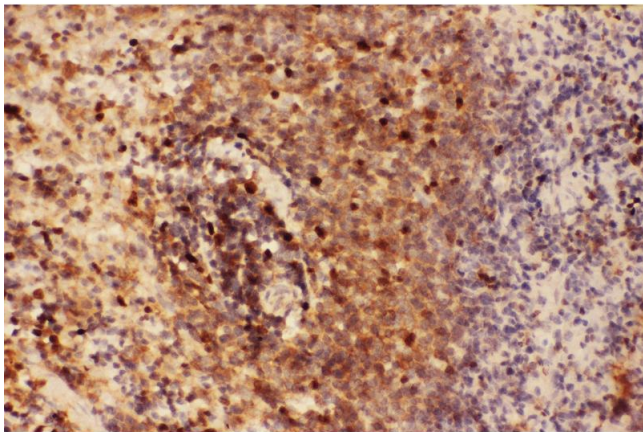
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in: Zuo, Wu, Xu, Yang, Yan, Tan, Meng, Ying, Liu, Kang, Huang: "Minicircle-oriP-IFN γ : a novel targeted gene therapeutic system for EBV positive human nasopharyngeal carcinoma." in: **PLoS ONE**, Vol. 6, Issue 5, pp. e19407, (2011) ([PubMed](#)).

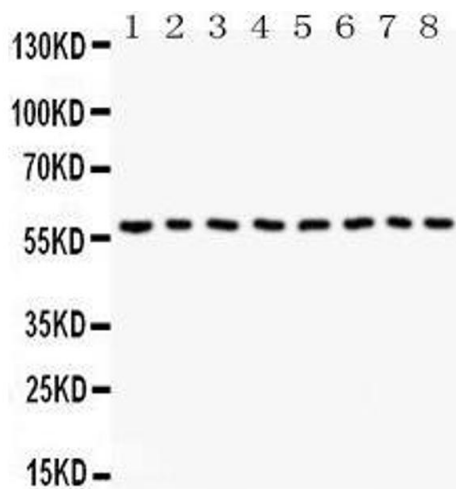
Tong, Zheng, Wang, Liu, Qian: "BAK overexpression mediates p53-independent apoptosis inducing effects on human gastric cancer cells." in: **BMC cancer**, Vol. 4, pp. 33, (2004) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



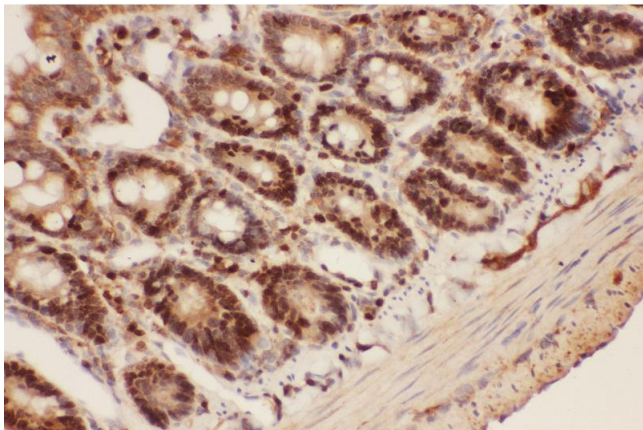
Immunohistochemistry

Image 1. Anti-Beclin 1 Picoband antibody, IHC(P): Rat Spleen Tissue



Western Blotting

Image 2.



Immunohistochemistry

Image 3. Anti-Beclin 1 Picoband antibody, IHC(P): Rat Intestine Tissue

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3042322.