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Datasheet for ABIN388546 anti-Beclin 1 antibody (AA 210-239)

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Overview

Quantity:	400 µL
Target:	Beclin 1 (BECN1)
Binding Specificity:	AA 210-239
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Beclin 1 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Beclin 1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 210-239 amino acids from human Beclin 1.
Clone:	RB7463
Isotype:	Ig Fraction
Predicted Reactivity:	B, Pig, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:

Beclin 1 (BECN1)

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Target Details	
Alternative Name:	Beclin 1 (BECN1 Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). Beclin 1 plays a role in two fundamentally important cell biological pathways: autophagy and apoptosis. Beclin 1 is thought to function as a VPS and autophagy protein as part of a complex with Class III Pl3 kinase, Vps34.
Molecular Weight:	51896
Gene ID:	8678
NCBI Accession:	NP_003757
UniProt:	Q14457
Pathways:	Autophagy

Application Details

Application Notes:	WB: 1:4000. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

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Product cited in:

Wang, Wang, Liu, Liu, Tay, Walsh, Yang, Wu: "CRISPR/Cas9 mediated genome editing of Helicoverpa armigera with mutations of an ABC transporter gene HaABCA2 confers resistance to Bacillus thuringiensis Cry2A toxins." in: **Insect biochemistry and molecular biology**, Vol. 87, pp. 147-153, (2017) (PubMed).

There are more publications referencing this product on: Product page

Images





Flow Cytometry

Image 1. Flow cytometric analysis of Y79 cells using Beclin 1 (BECN1/G6) Antibody (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goatanti-rabbit secondary antibodies were used for the analysis.

Western Blotting

Image 2. All lanes : Anti-Beclin-1 Antibody at 1:4000 dilution Lane 1: Hela whole cell lysate Lane 2: A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 52 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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Western Blotting

Image 3. Western blot analysis of anti-hBECN1- Pab (ABIN388546 and ABIN2849692) in 293 cell line lysates transiently transfected with the BECN1 gene (2 µg/lane). hBECN1-(arrow) was detected using the purified Pab.

Please check the product details page for more images. Overall 5 images are available for ABIN388546.