Datasheet for ABIN388594

anti-PIK3C3 antibody (AA 14-39)

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Overview

Quantity:	400 µL
Target:	PIK3C3
Binding Specificity:	AA 14-39
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3C3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PI3KC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 14-39 amino acids from human PI3KC3.
Clone:	RB11895
Isotype:	Ig Fraction
Predicted Reactivity:	M, Pig, Rat, X
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PIK3C3

Target Details

Alternative Name:	PI3KC3 (PIK3C3 Products)
Background:	PI3KC3 is a catalytic subunit of the PI3K complex involved in the transport of lysosomal enzyme precursors to lysosomes. This enzyme acts catalytically to convert 1-phosphatidyl-1D-myo-inositol to 1-phosphatidyl-1D-myo-inositol 3-phosphate. 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). The regulation of the Beclin 1-PI3KC3 complex lipid kinase activity is a critical element in the autophagy signaling pathway.
Molecular Weight:	101549
Gene ID:	5289
NCBI Accession:	NP_002638
UniProt:	Q8NEB9
Pathways:	AMPK Signaling, Activation of Innate immune Response, Inositol Metabolic Process, Toll-Like Receptors Cascades, Autophagy

Application Details

Application Notes:	IF: 1:200. WB: 1:1000. IHC-P: 1:10~50. IHC-P: 1:100
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

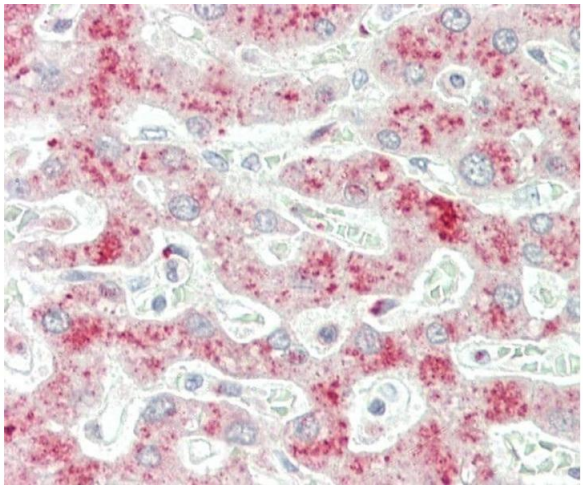
Handling

	aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

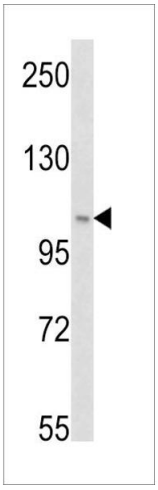
Product cited in:	Wang, Wang, Liu, Liu, Tay, Walsh, Yang, Wu: "CRISPR/Cas9 mediated genome editing of Helicoverpa armigera with mutations of an ABC transporter gene HaABCA2 confers resistance to Bacillus thuringiensis Cry2A toxins." in: **Insect biochemistry and molecular biology**, Vol. 87, pp. 147-153,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

Images



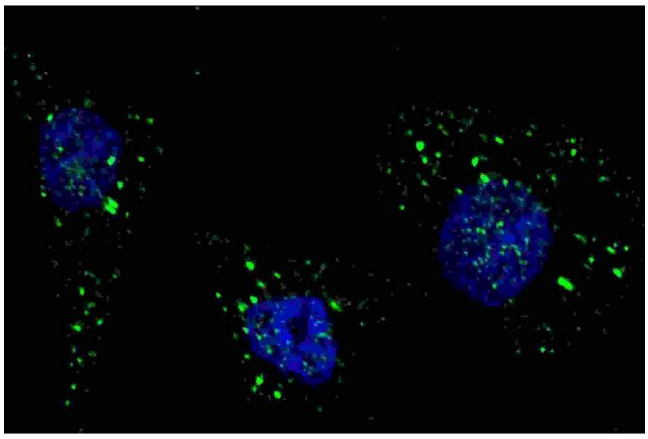
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded H.liver tissue reacted with PI3KC3 Antibody (S34) (ABIN388594 and ABIN2850000).



Western Blotting

Image 2. Western blot analysis of PI3KC3 (S34) (ABIN388594 and ABIN2850000) in Hela cell line lysates (35 µg/lane). PI3KC3 (arrow) was detected using the purified Pab.



Immunofluorescence

Image 3. Fluorescent image of cells stained with PI3KC3 (S34) antibody. cells were treated with Chloroquine (50 µ M,16h), then fixed with 4 % PFA (20 min), permeabilized with Triton X-100 (0.2 %, 30 min). Cells were then incubated with (ABIN388594 and ABIN2850000) PI3KC3 (S34) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 µg/mL, 5 min). PI3KC3 immunoreactivity is localized to autophagic vacuoles in the cytoplasm of cells.

Please check the product details page for more images. Overall 4 images are available for ABIN388594.