Datasheet for ABIN1449618

anti-PIK3C3 antibody (AA 19-49)

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Overview

Quantity:	0.4 mL
Target:	PIK3C3
Binding Specificity:	AA 19-49
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3C3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	KLH conjugated synthetic peptide between 19~49 amino acids surrounding Serine 34 of Human PI3KC3
Isotype:	Ig Fraction
Purification:	Protein A column, followed by peptide affinity purification.

Target Details

Target:	PIK3C3
Alternative Name:	PIK3C3 (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-

Target Details

	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.Synonyms: PI3-kinase type 3, PI3K type 3, Phosphatidylinositol 3-kinase catalytic subunit type 3, Phosphoinositide-3-kinase class 3, VPS34
Molecular Weight:	101549 Da
Gene ID:	5289
NCBI Accession:	NP_002638
Pathways:	AMPK Signaling, Activation of Innate immune Response, Inositol Metabolic Process, Toll-Like Receptors Cascades, Autophagy

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Buffer:	PBS containing 0.09 % (W/V) Sodium Azide as preservative
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:	Store undiluted at 2-8 °C for one month or (in aliquots) at -20 °C for longer.

Publications

Product cited in:

Lacroix Pépin, Chapdelaine, Rodriguez, Tremblay, Fortier: "Generation of human endometrial knockout cell lines with the CRISPR/Cas9 system confirms the prostaglandin F2α synthase activity of aldo-ketoreductase 1B1." in: **Molecular human reproduction**, Vol. 20, Issue 7, pp. 650-63, (2015) (PubMed).

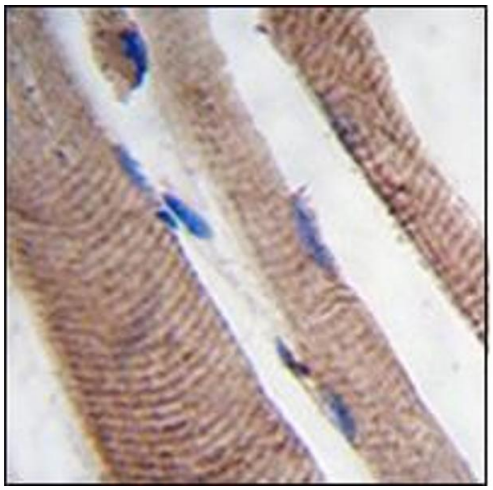
Eleftheriadis, Pissas, Antoniadi, Liakopoulos, Stefanidis: "Indoleamine 2,3-dioxygenase depletes tryptophan, activates general control non-derepressible 2 kinase and down-regulates key enzymes involved in fatty acid synthesis in primary human CD4+ T cells." in: **Immunology**, Vol. 146, Issue 2, pp. 292-300, (2015) (PubMed).

Guess, Ayoob, Chanley, Manley, Cajaiba, Agrawal, Pengal, Pyle, Becknell, Kopp, Ronkina, Gaestel, Benndorf, Smoyer: "Crucial roles of the protein kinases MK2 and MK3 in a mouse model of glomerulonephritis." in: **PLoS ONE**, Vol. 8, Issue 1, pp. e54239, (2013) (PubMed).

Minakami, Maehara, Kamakura, Kumano, Miyano, Sumimoto: "Membrane phospholipid metabolism during phagocytosis in human neutrophils." in: **Genes to cells : devoted to molecular & cellular mechanisms**, Vol. 15, Issue 5, pp. 409-24, (2010) (PubMed).

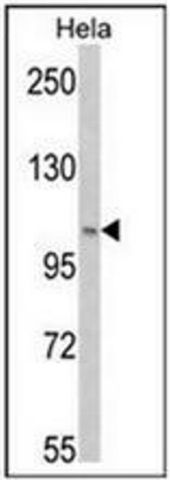
May, Sureban, Lightfoot, Hoskins, Brackett, Postier, Ramanujam, Rao, Wyche, Anant, Houchen: " Identification of a novel putative pancreatic stem/progenitor cell marker DCAMKL-1 in normal mouse pancreas." in: **American journal of physiology. Gastrointestinal and liver physiology**, Vol. 299, Issue 2, pp. G303-10, (2010) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with PI3KC3 Antibody , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Western Blotting

Image 2. Western blot analysis of PI3KC3 Antibody in Hela cell line lysates (35ug/lane). PI3KC3 (arrow) was detected using the purified Pab.