

Datasheet for ABIN388591

anti-PIK3C3 antibody (C-Term)[2 Images](#)[2 Publications](#)[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	PIK3C3
Binding Specificity:	AA 770-801, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIK3C3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This PI3KC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 770-801 amino acids from the C-terminal region of human PI3KC3.
Clone:	RB10857
Predicted Reactivity:	M, Pig, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	PIK3C3
Alternative Name:	PI3KC3 (PIK3C3 Products)

Target Details

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:	WB: 1:1000. IHC-P: 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.

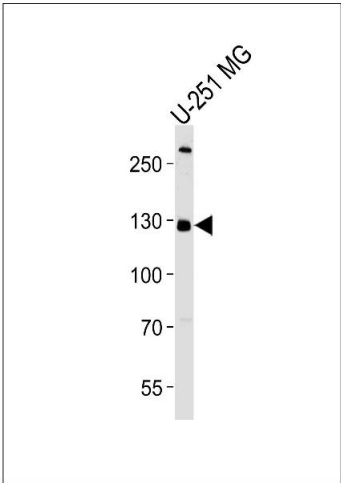
Expiry Date: 6 months

Publications

Product cited in: Delaney, Patel, Willis, Haghighiabyaneh, Axelrod, Tancioni, Lu, Bapat, Young, Cadassou, Bartakova, Sheth, Haft, Hui, Saenz, Schlaepfer, Harismendy, Stupack: "Haploinsufficiency networks identify targetable patterns of allelic deficiency in low mutation ovarian cancer." in: **Nature communications**, Vol. 8, pp. 14423, (2017) ([PubMed](#)).

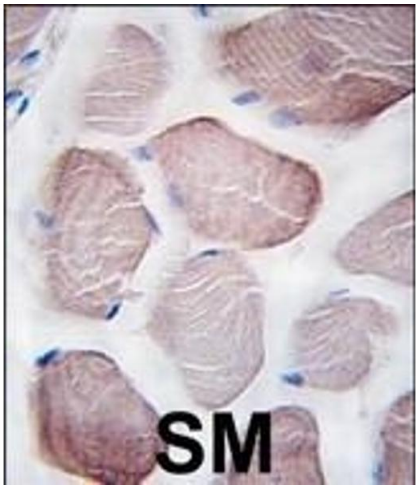
Liu, Ji, Zhou, Xing: "Phosphatidylinositol 3-Kinase Promotes Activation and Vacuolar Acidification and Delays Methyl Jasmonate-Induced Leaf Senescence." in: **Plant physiology**, Vol. 170, Issue 3, pp. 1714-31, (2016) ([PubMed](#)).

Images



Western Blotting

Image 1. Western blot analysis of lysate from U-251 MG cell line, using hPI3KC3 (C-term) (ABIN388591 and ABIN2849999). (ABIN388591 and ABIN2849999) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg per lane.



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with hPI3KC3 (C-term) (ABIN388591 and ABIN2849999) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.