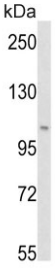
PI3KC3 Antibody (F54724)

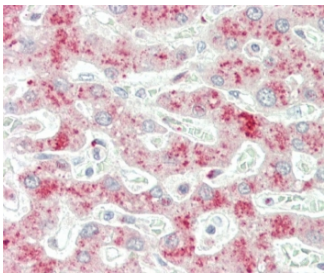
Catalog No.	Formulation	Size
F54724-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54724-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

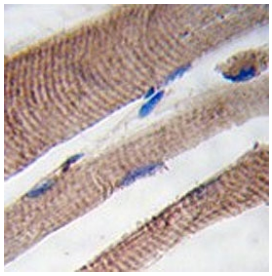
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	Q8NEB9
Localization	Cytoplasmic
Applications	Immunohistochemistry (FFPE) : 1:25 Western Blot : 1:500-1:2000 Immunofluorescence : 1:25
Limitations	This PI3KC3 antibody is available for research use only.



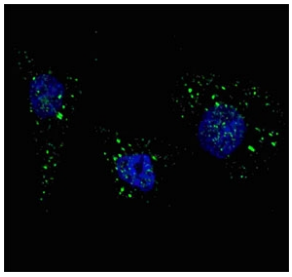
Western blot testing of human HeLa cell lysate with PI3KC3 antibody. Predicted molecular weight ~102 kDa.



IHC testing of FFPE human liver tissue with PI3KC3 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



IHC testing of FFPE human skeletal muscle tissue with PI3KC3 antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.



Immunofluorescent staining of fixed and permeabilized human U-251 cells (treated with 50 uM Chloroquine for 16 hr) with PI3KC3 antibody (green) and Hoechst 33342 nuclear stain (blue).

Description

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.

Application Notes

The stated application concentrations are suggested starting points. Titration of the PI3KC3 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 14-39 from the human protein was used as the immunogen for the PI3KC3 antibody.

Storage

Aliquot the PI3KC3 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.