

PIK3C3

Reactivity: Human Mouse

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Calculated MW: 100kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human PIK3C3

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

cq

Synonym:

VPS34; hVps34;

Catalog #: A0952

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 5289

Isotype: IgG

Swiss Prot: Q8NEB9

Purity: Affinity purification

For research use only.

Background:

PI3-Kinase Class 3 (VPS34) is the catalytic subunit of the PI3K complex. It is involved in the transport of lysosomal enzyme precursors to lysosomes and the induction of autophagy during nutrient deprivation (1, 2). Thus, PI3-Kinase Class 3 (VPS34) regulates intracellular vesicular transport at multiple steps through the production of phosphatidylinositol-3-phosphate (PI(3)P). Certain downstream effectors are involved in each of the processes that PI3-Kinase Class 3 (VPS34) regulates. It exerts its function through the recruitment of proteins that contain PI(3)P-binding motifs such as FYVE or PX domains (3). PI3-Kinase Class 3 (VPS34) is also required for the activation of the mTOR (mammalian target of rapamycin)/S6K1 (S6 kinase 1) pathway, which regulates protein synthesis in response to nutrient availability (2).

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