

PI 3 Kinase p100 Rabbit mAb
Catalog # AP77352**Specification****PI 3 Kinase p100 Rabbit mAb - Product Information**

Application	WB, IHC
Primary Accession	Q8NEB9
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	101549

PI 3 Kinase p100 Rabbit mAb - Additional Information

Gene ID 5289

Other Names

PIK3C3

Dilution

WB~~1/500-1/1000

IHC~~1/50-1/100

Format

Liquid

PI 3 Kinase p100 Rabbit mAb - Protein InformationName PIK3C3 ([HGNC:8974](#))

Synonyms VPS34 {ECO:0000305}

Function

Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis (PubMed: [14617358](http://www.uniprot.org/citations/14617358), PubMed: [33637724](http://www.uniprot.org/citations/33637724), PubMed: [7628435](http://www.uniprot.org/citations/7628435)). As part of PI3KC3-C1, promotes endoplasmic reticulum membrane curvature formation prior to vesicle budding (PubMed: [32690950](http://www.uniprot.org/citations/32690950)). Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed: [20208530](http://www.uniprot.org/citations/20208530), PubMed: [20643123](http://www.uniprot.org/citations/20643123)). Involved in the transport of lysosomal enzyme precursors to lysosomes (By similarity). Required for transport from early to late endosomes (By similarity).

Cellular Location

Midbody. Late endosome. Cytoplasmic vesicle, autophagosome. Note=As component of the PI3K complex I localized to pre-autophagosome structures. As component of the PI3K complex II localized predominantly to endosomes (PubMed:14617358). Localizes also to discrete punctae along the ciliary axoneme and to the base of the ciliary axoneme (By similarity) {ECO:0000250|UniProtKB:Q6PF93, ECO:0000305|PubMed:14617358}

Tissue Location

Ubiquitously expressed, with a highest expression in skeletal muscle.

PI 3 Kinase p100 Rabbit mAb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PI 3 Kinase p100 Rabbit mAb - Images



