

**PI 3 Kinase Class 3 Antibody**  
Rabbit mAb  
Catalog # AP90362**Specification**

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**PI 3 Kinase Class 3 Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">Q8NEB9</a>
Reactivity	Rat
Clonality	Monoclonal

**Other Names**

PI3-kinase type 3; PI3K type 3; PI3 kinase type 3; Phosphatidylinositol 3-kinase p100 subunit; Phosphoinositide-3-kinase class 3; hVps34; PIK3C3; Vps 34; Vps34

Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	101549 Da

**PI 3 Kinase Class 3 Antibody - Additional Information**

Dilution	WB~~1:1000 IHC~~1:100~500
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human PI 3 Kinase Class 3
Description	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for the abscission step in cytokinesis.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

**PI 3 Kinase Class 3 Antibody - Protein Information**

Name 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:<a href="http://www.uniprot.org/citations/14617358" target="\_blank">14617358</a>, PubMed:<a href="http://www.uniprot.org/citations/33637724" target="\_blank">33637724</a>)

target="\_blank">33637724</a>, PubMed:<a href="http://www.uniprot.org/citations/7628435" target="\_blank">7628435</a>). As part of PI3KC3-C1, promotes endoplasmic reticulum membrane curvature formation prior to vesicle budding (PubMed:<a href="http://www.uniprot.org/citations/32690950" target="\_blank">32690950</a>). Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:<a href="http://www.uniprot.org/citations/20208530" target="\_blank">20208530</a>, PubMed:<a href="http://www.uniprot.org/citations/20643123" target="\_blank">20643123</a>). 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). Also localizes 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

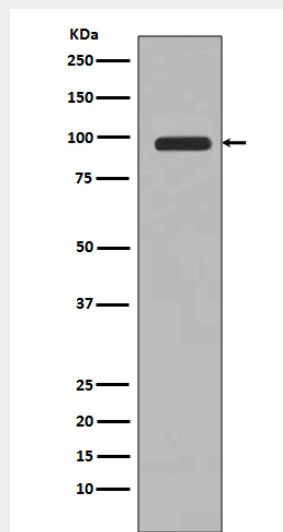
Ubiquitously expressed, with a highest expression in skeletal muscle.

## PI 3 Kinase Class 3 Antibody - 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 Class 3 Antibody - Images



Western blot analysis of PI 3 Kinase Class 3 expression in 293T cell lysate.