

### PI 3 Kinase Class 3 Polyclonal Antibody

**Catalog # AP73942** 

#### **Specification**

# PI 3 Kinase Class 3 Polyclonal Antibody - Product Information

**Application** WB **Primary Accession 08NEB9** Reactivity Human, Mouse, Rat, Bovine, Pig

Host Rabbit Clonality

**Polyclonal** 

## PI 3 Kinase Class 3 Polyclonal Antibody - Additional Information

**Gene ID 5289** 

**Other Names** 

phosphoinositide-3-kinase, class 3

Dilution

WB~~WB 1:500-2000, ELISA 1:10000-20000

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions** 

-20°C

# PI 3 Kinase Class 3 Polyclonal Antibody - Protein Information

Name PIK3C3 (<u>HGNC:8974</u>)

**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>, 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**

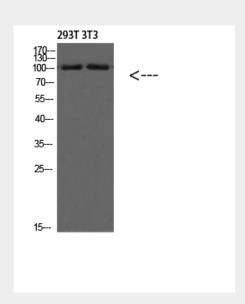
Ubiquitously expressed, with a highest expression in skeletal muscle.

## PI 3 Kinase Class 3 Polyclonal Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

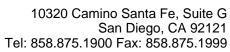
## PI 3 Kinase Class 3 Polyclonal Antibody - Images



Western Blot analysis of 293T 3T3 cells using PI 3 Kinase Class 3 Polyclonal Antibody diluted at 1:1500. Secondary antibody was diluted at 1:20000

### PI 3 Kinase Class 3 Polyclonal Antibody - Background

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. Involved in regulation of degradative endocytic trafficking and required for the abcission step in cytokinesis, probably in the context of PI3KC3-C2





(PubMed:20643123, PubMed:20208530). Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity).