

**PI 3 Kinase Class 3 Polyclonal Antibody**  
Catalog # AP73942**Specification****PI 3 Kinase Class 3 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q8NEB9</a>
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

**Format**

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 ([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

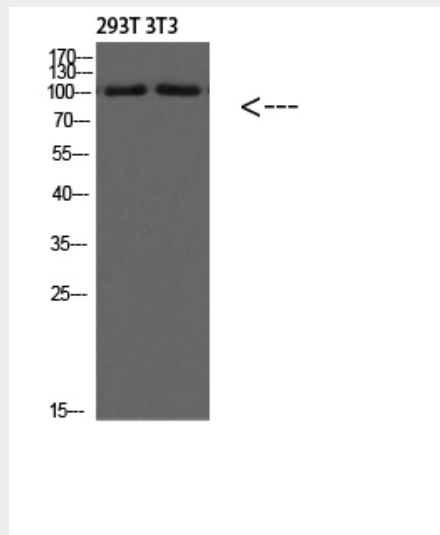
Ubiquitously expressed, with a highest expression in skeletal muscle.

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



### 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 abscission 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).