

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

| | |
|-------------------|--------------------------------|
| Application | WB |
| Primary Accession | Q8NEB9 |
| 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

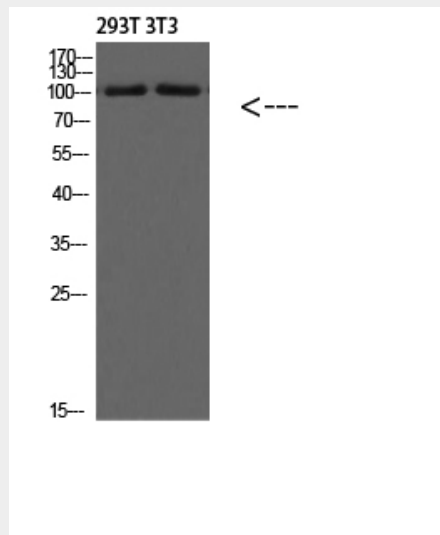
Ubiquitously expressed, with a highest expression in skeletal muscle.

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

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to lysosomes. Required for transport from early to late endosomes (By similarity).