

**Anti-VPS34 Antibody**  
Rabbit polyclonal antibody to VPS34  
Catalog # AP61540

## Specification

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### Anti-VPS34 Antibody - Product Information

Application	WB
Primary Accession	<a href="#">Q8NEB9</a>
Other Accession	<a href="#">Q6PF93</a>
Reactivity	Human, Mouse, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	101549

### Anti-VPS34 Antibody - Additional Information

Gene ID 5289

#### Other Names

VPS34; Phosphatidylinositol 3-kinase catalytic subunit type 3; PI3-kinase type 3; PI3K type 3; PtdIns-3-kinase type 3; Phosphatidylinositol 3-kinase p100 subunit; Phosphoinositide-3-kinase class 3; hVps34

#### Target/Specificity

Recognizes endogenous levels of VPS34 protein.

#### Dilution

WB~~WB (1/500 - 1/2000)

#### Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

#### Storage

Store at -20 °C. Stable for 12 months from date of receipt

### Anti-VPS34 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: <http://www.uniprot.org/citations/14617358> target="\_blank">14617358</a>, PubMed: <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). 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

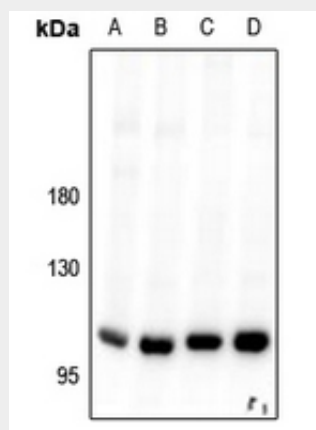
Ubiquitously expressed, with a highest expression in skeletal muscle.

#### Anti-VPS34 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](#)

#### Anti-VPS34 Antibody - Images



Western blot analysis of VPS34 expression in C6 (A), AML12 (B), H1792 (C), MCF7 (D) whole cell lysates.

#### Anti-VPS34 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human VPS34. The exact sequence is proprietary.