

# Anti-VPS34 Antibody

Rabbit polyclonal antibody to VPS34

Catalog # AP61540

## 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

## 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

## Protein Information

Name	PIK3C3 ( <a href="#">HGNC:8974</a> )
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="#">14617358</a> , PubMed: <a href="#">33637724</a> , PubMed: <a href="#">7628435</a> ). As part of PI3KC3-C1, promotes endoplasmic reticulum membrane curvature formation prior to vesicle budding (PubMed: <a href="#">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="#">20208530</a> , PubMed: <a href="#">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.

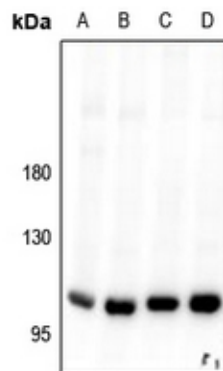
## Background

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

## Images

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

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