

Anti-VPS34 Antibody

Rabbit polyclonal antibody to VPS34
Catalog # AP61540

Product Information

Application	WB
Primary Accession	Q8NEB9
Other Accession	Q6PF93
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	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human VPS34. The exact sequence is proprietary.
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 (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 , PubMed: 33637724 , PubMed: 7628435). As part of PI3KC3-C1, promotes endoplasmic reticulum membrane curvature formation prior to vesicle budding (PubMed: 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 , PubMed: 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). 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}

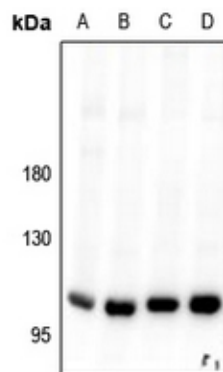
Tissue Location

Ubiquitously expressed, with a highest expression in skeletal muscle.

Background

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

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.