

Rabbit PI3KC3 Polyclonal Antibody | anti-PIK3C3 antibody

PI3KC3 Antibody (C-term E785)

CATALOG # AAA288963	HOST Rabbit	REACTIVITY Human (Predicted Reactivity: Mouse, Pig, Rat)	APPLICATIONS Western Blot, Immunohistochemistry, ELISA
-------------------------------	-----------------------	--	--

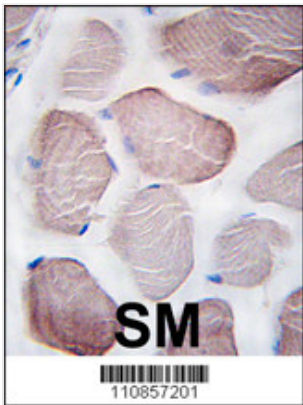
PRODUCT SYNONYMS

PI3KC3; Polyclonal Antibody; PI3KC3 Antibody (C-term E785); 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; PIK3C3; VPS34; anti-PIK3C3 antibody

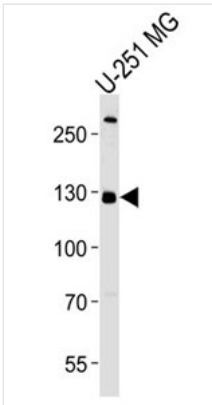
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse, Pig, Rat)
Clonality	Polyclonal
Specificity	This PI3KC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 770-801 amino acids from the C-terminal region of human PI3KC3.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	770-801
Sequence Length	887
Applicable Applications for anti-PIK3C3 antibody	WB (Western Blot), IHC (Immunohistochemistry), ELISA
Antigen Type	Synthetic Peptide
Function	Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol3-phosphate; different complex forms arebelieved to play a role in multiple membranetrafficking pathways: PI3KC3-C1 is involved ininitiation of autophagosomes and PI3KC3-C2in maturation of autophagosomes andendocytosis. Involved in regulation ofdegradative endocytic trafficking andrequired for the abscission step in cytokinesis,probably in the context of PI3KC3-C2.
Cellular location	Midbody. Late endosome. Cytoplasmicvesicle, autophagosome. Note=As componentof the PI3K complex I localized topre-autophagosome structures. Ascomponent of the PI3K complex II localizedpredominantly to endosomes (Probable).Localizes also to discrete punctae along theciliary axoneme and to the base of the ciliaryaxoneme .
Tissue location	Ubiquitously expressed, with a highestexpression in skeletal muscle.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with hPI3KC3 (C-term) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of lysate from U-251 MG cell line, using hPI3KC3 (C-term). AAA288963 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

ADDITIONAL INFORMATION

Related Product Information for anti-PIK3C3 antibody	PI3KC3 is a catalytic subunit of the PI3K complex involved in the transport of lysosomal enzyme precursors to lysosomes. This enzyme acts catalytically to convert 1-phosphatidyl-1D-myo-inositol to 1-phosphatidyl-1D-myo-inositol 3-phosphate. Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole). The regulation of the Beclin 1-PI3KC3 complex lipid kinase activity is a critical element in the autophagy signaling pathway.
Product Categories/Family for anti-PIK3C3 antibody	Immunology ; Metabolism ; Signal Transduction ; Autophagy
References	Vergne, I., et al., J. Exp. Med. 198(4):653-659 (2003). Volinia, S., et al., EMBO J. 14(14):3339-3348 (1995).

NCBI AND UNIPROT INFORMATION

NCBI GI #	34761064
NCBI GeneID	5289
NCBI Accession #	NP_002638.2
NCBI GenBank Nucleotide #	NM_002647.3
UniProt Accession #	Q8NEB9; Q15134
NCBI Official Full Name	phosphatidylinositol 3-kinase catalytic subunit type 3 isoform 1
NCBI Official Synonym Full Names	phosphatidylinositol 3-kinase, catalytic subunit type 3
NCBI Official Symbol	PIK3C3
NCBI Official Synonym Symbols	VPS34; Vps34; hVps34
NCBI Protein Information	phosphatidylinositol 3-kinase catalytic subunit type 3
UniProt Protein Name	Phosphatidylinositol 3-kinase catalytic subunit type 3

UniProt Gene Name	PIK3C3
UniProt Synonym Gene Names	VPS34; PI3-kinase type 3; PI3K type 3; PtdIns-3-kinase type 3
UniProt Entry Name	PK3C3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/pi3kc3-antibody-western-blot-immunohistochemistry-elisa/288963>