

Rabbit PI3 Kinase Class III Polyclonal Antibody | anti-Pik3c3 antibody

Phospho-PI3 Kinase Class III (Ser244/249) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328539	Rabbit	Human, Mouse, RatPredicted: Pig, Bovine, Horse, Sheep, Rabbit, Chicken, Xenopus	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PI3 Kinase Class III; Polyclonal Antibody; Phospho-PI3 Kinase Class III (Ser244/249) Antibody; hVps34; MGC61518; Phosphatidylinositol 3 kinase catalytic subunit type 3; Phosphatidylinositol 3 kinase class 3; Phosphatidylinositol 3 kinase p100 subunit; Phosphatidylinositol 3-kinase catalytic subunit type 3; Phosphatidylinositol 3-kinase p100 subunit; Phosphoinositide 3 kinase class 3; Phosphoinositide-3-kinase class 3; PI3 kinase type 3; PI3-kinase type 3; PI3K type 3; PK3C3_HUMAN; PtdIns 3 kinase type 3; PtdIns-3-kinase type 3; Vps 34; Vps34; anti-Pik3c3 antibody

PRODUCT SPECIFICATIONS

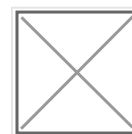
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted: Pig, Bovine, Horse, Sheep, Rabbit, Chicken, Xenopus
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-PI3 Kinase Class III (Ser244/249) Antibody detects endogenous levels of PI3 Kinase Class III only when phosphorylated at Ser244/249.
Purity/Purification	Purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid; Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	887
Applicable Applications for anti-Pik3c3 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PI3 Kinase Class III around the phosphorylation site of Ser244/249.
Tissue Specificity	Ubiquitously expressed, with a highest expression in skeletal muscle.
Subcellular Location	Endosome
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-PI3 Kinase Class III (Ser244/249) in lysates of 293T⁺, using Phospho-PI3 Kinase Class III (Ser244/249) Antibody.



IHC (Immunohistochemistry)

At 1/100 staining mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary



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ADDITIONAL INFORMATION

Related Product Information for anti-Pik3c3 antibody	Description: 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. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530). Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity). Subunit Structure: Component of the PI3K (PI3KC3/PI3K-III/class III phosphatidylinositol 3-kinase) complex the core of which is composed of the catalytic subunit PIK3C3, the regulatory subunit PIK3R4 and BECN1 associating with additional regulatory/auxilliary subunits to form alternative complex forms. Alternative complex forms containing a forth regulatory subunit in a mutually exclusive manner are: the PI3K complex I (PI3KC3-C1) containing ATG14, and the PI3K complex II (PI3KC3-C2) containing UVRAG. PI3KC3-C1 displays a V-shaped architecture with PIK3R4 serving as a bridge between PIK3C3 and the ATG14:BECN1 subcomplex. Both, PI3KC3-C1 and PI3KC3-C2, can associate with further regulatory subunits such as RUBCN, SH3GLB1/Bif-1 and AMBRA1 (PubMed:7628435, PubMed:19050071, PubMed:20643123, PubMed:19270696, PubMed:23878393, PubMed:25490155). PI3KC3-C1 probably associates with PIK3CB (By similarity). Interacts with RAB7A in the presence of PIK3R4 (PubMed:14617358). Interacts with AMBRA1 (By similarity). Interacts with BECN1P1/BECN2 (PubMed:23954414). Interacts with SLAMF1(PubMed:22493499). May be a component of a complex composed of RAB5A (in GDP-bound form), DYN2 and PIK3C3 (By similarity). Interacts with NCKAP1L (PubMed:16417406). Similarity: Belongs to the PI3/PI4-kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	34761064
NCBI GeneID	5289
NCBI Accession #	NP_002638.2
NCBI GenBank Nucleotide #	NP_002638.2
UniProt Accession #	Q8NEB9
Molecular Weight	Observed: 100 kDa Predicted: 102 kDa
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

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pi3-kinase-class-iii-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/328539>