PI3KC3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PI3KC3, Polyclonal Antibody
Full Product Name	PI3KC3 (S676) (Phosphatidylinositol 3-kinase catalytic subunit type 3, PtdIns-3-kinase type 3, PI3-kinase type 3, PI3K type 3, Phosphoinositide-3-kinase class 3, Phosphatidylinositol 3-kinase p100 subunit, vps34) (MaxLight 490)
Product Gene Name	anti-PI3KC3 antibody
Product Synonym Gene Name	PIK3C3
Product Synonym Names	Phosphatidylinositol 3-kinase catalytic subunit type 3; PtdIns-3-kinase type 3; PI3-kinase type 3; PI3K type 3; Phosphoinositide-3-kinase class 3; Phosphatidylinositol 3-kinase p100 subunit; vps34
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	887
Chromosome Location	Chromosome: 18; NC_000018.9 (39535165..39662272). Location: 18q12.3
OMIM	602609
3D Structure	ModBase 3D Structure for Q8NEB9
Immunogen	PI3KC3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 661~691 amino acids surrounding S676 of human PI3KC3.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-PI3KC3 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-PI3KC3 antibody	Immunohistochemistry (IHC), FLISA
Application Notes for anti-PI3KC3 antibody	IHC: 1:10-50 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-PI3KC3 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 References and Citations for anti-PI3KC3 antibody	Vergne, I., et al., J. Exp. Med. 198(4):653-659 (2003). Volinia, S., et al., EMBO J. 14(14):3339-3348 (1995).
Other Notes	Small volumes of anti-PI3KC3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PI3KC3 purchase	MBS6333580 is an antibody targeting PI3KC3. Also known as PI3KC3 (S676) (Phosphatidylinositol 3-kinase catalytic subunit type 3, PtdIns-3-kinase type 3, PI3-kinase type 3, PI3K type 3, Phosphoinositide-3-kinase class 3, Phosphatidylinositol 3-kinase p100 subunit, vps34) (MaxLight 490). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PI3KC3. It may not necessarily be applicable to this product.

NCBI GI #	34761064
NCBI GeneID	5289
NCBI Accession #	NP_002638.2
UniProt Primary Accession #	Q8NEB9
UniProt Secondary Accession #	Q15134
UniProt Related Accession #	Q8NEB9
GenBank Nucleotide #	NM_002647.2
NCBI Official Full Name	phosphatidylinositol 3-kinase catalytic subunit type 3
NCBI Official Synonym Full Names	phosphatidylinositol 3-kinase, catalytic subunit type 3
NCBI Official Symbol	PIK3C3
NCBI Official Synonym Symbols	VPS34; hVps34
UniProt Protein Name	Phosphatidylinositol 3-kinase catalytic subunit type 3
UniProt Synonym Protein Names	Phosphatidylinositol 3-kinase p100 subunit; Phosphoinositide-3-kinase class 3; hVps34
UniProt Gene Name	PIK3C3
UniProt Synonym Gene Names	VPS34; PI3-kinase type 3; PI3K type 3
UniProt Entry Name	PK3C3_HUMAN
NCBI Protein Information	phosphatidylinositol 3-kinase catalytic subunit type 3; PI3K type 3; PI3-kinase type 3; PtdIns-3-kinase type 3; phosphoinositide-3-kinase, class 3; phosphatidylinositol 3-kinase p100 subunit
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