



Rabbit Anti-phospho-PIK3C3 (Ser282) antibody

SL5579R

Product Name:	phospho-PIK3C3 (Ser282)
Chinese Name:	磷酸化磷脂酰肌醇激酶3催化亚单位3抗体
Alias:	PIK3C3(phospho S282); p-PIK3C3(phospho S282); p-PIK3C3(Ser282); PI 3 Kinase Class 3; Phosphatidylinositol 3 kinase catalytic subunit type 3; Phosphatidylinositol 3 kinase class 3; Phosphatidylinositol 3 kinase p100 subunit; Phosphoinositide 3 kinase class 3; PI3 kinase type 3; PI3K type 3; PIK3C3; PtdIns 3 kinase type 3; Vps 34; Vps34; hVps34; MGC61518; PK3C3 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	98kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PIK3C3 around the phosphorylation site of Ser282:GP(p-S)DH
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

PI 3 Kinase Class 3 is a member of the PI3/PI4-kinase family. It is the catalytic subunit of the PI3K complex. It is involved in the transport of lysosomal enzyme precursors to lysosomes. It is ubiquitously expressed, with a highest expression in skeletal muscle.

Function:

Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate which plays a key role in initiation and maturation of autophagosomes. Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for the abscission step in cytokinesis. Required for transport from early to late endosomes.

Subunit:

Heterodimer. This subunit, part of a complex composed of regulatory and catalytic subunits, associates with regulatory subunit PIK3R4. Forms a complex with BECN1, PIK3R4 and either UVRAG and KIAA0226/Rubicon, or with ATG14. In this complex, presence of UVRAG and ATG14 are mutually exclusive. Part of a complex composed of PIK3R4 and PIK3CB (By similarity). Interacts with RAB7A in the presence of PIK3R4.

Subcellular Location:

Midbody. Late endosome.

Tissue Specificity:

Ubiquitously expressed, with a highest expression in skeletal muscle.

Similarity:

Belongs to the PI3/PI4-kinase family.
Contains 1 C2 PI3K-type domain.
Contains 1 PI3K/PI4K domain.
Contains 1 PIK helical domain.

SWISS:

Q8NEB9

Gene ID:

5289

Database links:

[Entrez Gene: 5289](#)Human

[Entrez Gene: 225326](#)Mouse

[Entrez Gene: 65052](#)Rat

[Omim: 602609](#)Human

[SwissProt: Q8NEB9](#)Human

[SwissProt: Q6PF93](#)Mouse

[SwissProt: O88763](#)Rat

Product Detail:

[Unigene: 464971](#)Human

[Unigene: 194127](#)Mouse

[Unigene: 30010](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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