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PIP5KIII rabbit pAb

Cat No.:ES3211

For research use only

Overview

Product Name	PIP5KIII rabbit pAb
Host species	Rabbit
Applications	WB;IHC
Species Cross-Reactivity	Human;Mouse
Recommended dilutions	WB 1:500-2000;IHC-p 1:50-300
Immunogen	The antiserum was produced against synthesized peptide derived from human PIP5K. AA range:71-120
Specificity	PIP5KIII Polyclonal Antibody detects endogenous levels of PIP5KIII protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	1-phosphatidylinositol 3-phosphate 5-kinase
Gene Name	PIKFYVE
Cellular localization	Endosome membrane ; Peripheral membrane protein . Early endosome membrane ; Peripheral membrane protein. Cytoplasmic vesicle, phagosome membrane ; Peripheral membrane protein . Late endosome membrane ; Peripheral membrane protein . Mainly associated with membranes of the late endocytic pathway. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	237kD
Human Gene ID	200576
Human Swiss-Prot Number	Q9Y2I7
Alternative Names	PIKFYVE; KIAA0981; PIP5K3; 1-phosphatidylinositol 3-phosphate 5-kinase; Phosphatidylinositol 3-phosphate 5-kinase; FYVE finger-containing

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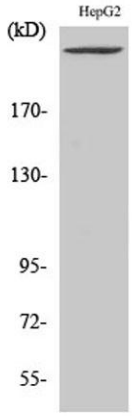
phosphoinositide kinase; PIKfyve; Phosphatidylinositol 3-phosphate 5-kinase type III; PIPkin-III; Type

Background

Phosphorylated derivatives of phosphatidylinositol (PtdIns) regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. Humans have multiple PtdIns proteins that differ by the degree and position of phosphorylation of the inositol ring. This gene encodes an enzyme (PIKfyve; also known as phosphatidylinositol-3-phosphate 5-kinase type III or PIPKIII) that phosphorylates the D-5 position in PtdIns and phosphatidylinositol-3-phosphate (PtdIns3P) to make PtdIns5P and PtdIns(3,5)biphosphate. The D-5 position also can be phosphorylated by type I PtdIns4P-5-kinases (PIP5Ks) that are encoded by distinct genes and preferentially phosphorylate D-4 phosphorylated PtdIns. In contrast, PIKfyve preferentially phosphorylates D-3 phosphorylated PtdIns. In addition to being a lipid kinase, PIKf



Western Blot analysis of various cells using PIP5KIII Polyclonal Antibody

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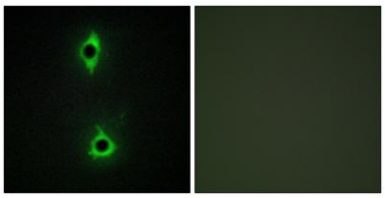
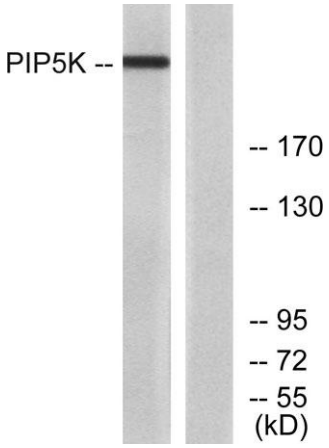
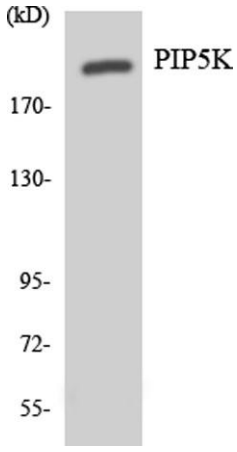
Immunofluorescence analysis of COS7 cells, using PIP5K Antibody. The picture on the right is blocked with the synthesized peptide.





Western blot analysis of lysates from HepG2 cells, using PIP5K Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from Jurkat cells using PIP5K antibody.

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