

**PIP5KIII (phospho Ser307) rabbit pAb****Cat#: orb767980 (Manual)**

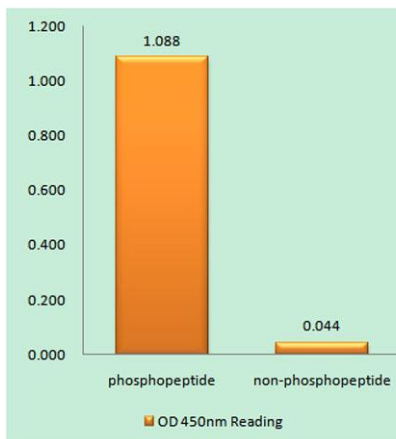
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<b>Product Name</b>	PIP5KIII (phospho Ser307) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human PIP5K around the phosphorylation site of Ser307. AA range:273-322
<b>Specificity</b>	Phospho-PIP5KIII (S307) Polyclonal Antibody detects endogenous levels of PIP5KIII protein only when phosphorylated at S307.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	1-phosphatidylinositol 3-phosphate 5-kinase
<b>Gene Name</b>	PIKFYVE
<b>Cellular localization</b>	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. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

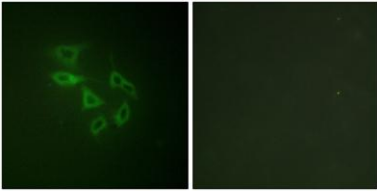
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	200576
<b>Human Swiss-Prot Number</b>	Q9Y2I7
<b>Alternative Names</b>	PIKFYVE; KIAA0981; PIP5K3; 1-phosphatidylinositol 3-phosphate 5-kinase; Phosphatidylinositol 3-phosphate 5-kinase; FYVE finger-containing phosphoinositide kinase; PIKfyve; Phosphatidylinositol 3-phosphate 5-kinase type III; PIPkin-III; Type

**Background**

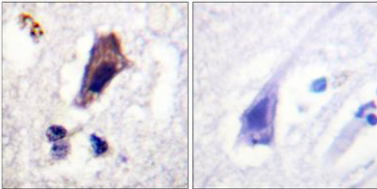
Phosphorylated derivatives of phosphatidylinositol (PtdIns) regulate cytoskeletal functions, membrane trafficking, and receptor signaling by recruiting protein complexes to cell- and endosomal-membranes. Humans have multiple PtdIns proteins that differ by the degree and position of phosphorylation of 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



**Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using PIP5K (Phospho-Ser307) Antibody**



**Immunofluorescence analysis of HeLa cells, using PIP5K (Phospho-Ser307) Antibody. The picture on the right is blocked with the phospho peptide.**



**Immunohistochemistry analysis of paraffin-embedded human brain, using PIP5K (Phospho-Ser307) Antibody. The picture on the right is blocked with the phospho peptide.**