Anti-Phospho-PIP5KIII (S307) antibody

Description	Rabbit polyclonal to Phospho-PIP5KIII (S307).

Model	STJ91322
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC
Immunogen	Synthesized peptide derived from human PIP5KIII around the phosphorylation site of S307.
Immunogen Region	250-330 aa
Gene ID	200576
Gene Symbol	PIKFYVE
Dilution range	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
Specificity	Phospho-PIP5KIII (S307) Polyclonal Antibody detects endogenous levels of PIP5KIII protein only when phosphorylated at S307.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	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 III PIP kin
Molecular Weight	237 kDa

Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:23785OMIM:121850
Alternative Names	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 III PIP kin
Function	The PI(3,5)P2 regulatory complex regulates both the synthesis and turnover of phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2). Catalyzes the phosphorylation of phosphatidylinositol 3-phosphate on the fifth hydroxyl of the myo-inositol ring, to form phosphatidylinositol 3,5-bisphosphate. Required for endocytic-vacuolar pathway and nuclear migration. Plays a role in the biogenesis of endosome carrier vesicles (ECV)/ multivesicular bodies (MVB) transport intermediates from early endosomes.
Cellular Localization	Endosome membrane. Mainly associated with membranes of the late endocytic pathway.
Post-translational Modifications	Phosphorylated in response to insulin at Ser-318 in a protein kinase B (PKB)-dependent manner.