

HISPPD2A/IP6 Kinase Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP56693

Product Information

Application	IHC-P, IHC-F, IF, ICC
Primary Accession	Q6PFW1
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	159521

Additional Information

Gene ID	9677
Other Names	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1, 2.7.4.21, 2.7.4.24, Diphosphoinositol pentakisphosphate kinase 1, Histidine acid phosphatase domain-containing protein 2A, IP6 kinase, Inositol pyrophosphate synthase 1, InsP6 and PP-IP5 kinase 1, VIP1 homolog, hsVIP1, PPIP5K1, HISPPD2A, IP6K, IPS1, KIAA0377, VIP1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	PPIP5K1 (HGNC:29023)
Function	Bifunctional inositol kinase that acts in concert with the IP6K kinases IP6K1, IP6K2 and IP6K3 to synthesize the diphosphate group-containing inositol pyrophosphates diphosphoinositol pentakisphosphate, PP-InsP5, and bis-diphosphoinositol tetrakisphosphate, (PP)2-InsP4. PP-InsP5 and (PP)2-InsP4, also respectively called InsP7 and InsP8, regulate a variety of cellular processes, including apoptosis, vesicle trafficking, cytoskeletal dynamics, exocytosis, insulin signaling and neutrophil activation. Phosphorylates inositol hexakisphosphate (InsP6) at position 1 to produce PP-InsP5 which is in turn phosphorylated by IP6Ks to produce (PP)2-InsP4. Alternatively, phosphorylates PP-InsP5 at position 1, produced by IP6Ks from InsP6, to produce (PP)2-InsP4. Activated when cells are exposed to hyperosmotic stress.
Cellular Location	Cytoplasm, cytosol. Cell membrane. Note=Relocalizes to the plasma membrane upon activation of the PtdIns 3-kinase pathway

Tissue Location	Widely expressed, with a higher expression in skeletal muscle, heart and brain.
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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.