

HISPPD2A/IP6 Kinase Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56693**Specification****HISPPD2A/IP6 Kinase Polyclonal Antibody - Product Information**

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

HISPPD2A/IP6 Kinase Polyclonal Antibody - 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 ~ ~ N/A
IHC-F ~ ~ N/A
IF ~ ~ 1:50 ~ 200
ICC ~ ~ N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

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.

HISPPD2A/IP6 Kinase Polyclonal Antibody - 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.

HISPPD2A/IP6 Kinase Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

HISPPD2A/IP6 Kinase Polyclonal Antibody - Images