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HISPPD1 antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI13759

Product Information

Application	WB
Primary Accession	O43314
Other Accession	NM_015216, NP_056031
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	140407

Additional Information

Gene ID	23262
Alias Symbol	FLJ21506, KIAA0433, PPIP5K2, VIP2, IP7K2, HISPPD1
Other Names	Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2, 2.7.4.21, 2.7.4.24, Diphosphoinositol pentakisphosphate kinase 2, Histidine acid phosphatase domain-containing protein 1, InsP6 and PP-IP5 kinase 2, VIP1 homolog 2, hsVIP2, PPIP5K2, HISPPD1, KIAA0433, VIP2
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-HISPPD1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	HISPPD1 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPIP5K2 {ECO:0000303|PubMed:29590114, ECO:0000312|HGNC:HGNC:29035}
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 (PubMed:17690096, PubMed:17702752, PubMed:21222653, PubMed:29590114). PP-InsP5 and (PP)2-InsP4, also respectively called InsP7 and InsP8, regulate a variety of cellular processes, including apoptosis, vesicle trafficking, cytoskeletal

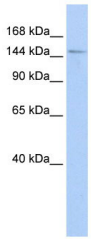
dynamics, exocytosis, insulin signaling and neutrophil activation (PubMed:17690096, PubMed:17702752, PubMed:21222653, PubMed:29590114). Phosphorylates inositol hexakisphosphate (InsP6) at position 1 to produce PP-InsP5 which is in turn phosphorylated by IP6Ks to produce (PP)2-InsP4 (PubMed:17690096, PubMed:17702752). Alternatively, phosphorylates PP-InsP5 at position 1, produced by IP6Ks from InsP6, to produce (PP)2-InsP4 (PubMed:17690096, PubMed:17702752). Required for normal hearing (PubMed:29590114).

Cellular Location Cytoplasm, cytosol.

References

Ishikawa K.,et al.DNA Res. 4:307-313(1997).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Schmutz J.,et al.Nature 431:268-274(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Fridy P.C.,et al.J. Biol. Chem. 282:30754-30762(2007).

Images



WB Suggested Anti-HISPPD1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:1562500
Positive Control: Transfected 293T

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.