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INPP5E Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58228

Product Information

Application	IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q9Y2H2
Reactivity	Rat, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	128407

Additional Information

Gene ID	22876
Other Names	Phosphatidylinositide phosphatase SAC2, 3.1.3.25, Inositol polyphosphate 5-phosphatase F {ECO:0000312|HGNC:HGNC:17054}, Sac domain-containing inositol phosphatase 2, Sac domain-containing phosphoinositide 4-phosphatase 2, hSAC2, INPP5F (HGNC:17054), KIAA0966, SAC2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	INPP5F (HGNC:17054)
Synonyms	KIAA0966, SAC2
Function	Phosphoinositide phosphatase which catalyzes the hydrolysis of phosphatidylinositol 4-phosphate (1,2-diacyl-sn-glycero-3-phospho-(1D-myo-inositol 4-phosphate), PtdIns(4)P). May be functionally linked to OCRL, which converts phosphatidylinositol 4,5-bisphosphate (PtdIns(4,5)P2) to PtdIns, for a sequential dephosphorylation of (PtdIns(4,5)P2) at the 5 and 4 position of inositol, thus playing an important role in the endocytic recycling (PubMed:25869668, PubMed:25869669). Regulator of TF:TFRC and integrins recycling pathway, is also involved in cell migration mechanisms (PubMed:25869669). Modulates AKT/GSK3B pathway by decreasing AKT and GSK3B phosphorylation (PubMed:17322895). Negatively regulates STAT3 signaling pathway through inhibition of STAT3 phosphorylation and translocation to the nucleus (PubMed:25476455). Functionally important modulator of cardiac myocyte size and of the cardiac response to stress (By

	similarity). May play a role as negative regulator of axon regeneration after central nervous system injuries (By similarity). May be involved in insulin granule docking at the plasma membrane of pancreatic cells, an essential step for insulin secretion (PubMed:31533953).
Cellular Location	Membrane, clathrin-coated pit. Early endosome. Recycling endosome. Note=Also found on macropinosomes {ECO:0000250|UniProtKB:Q8CDA1}
Tissue Location	Ubiquitous (PubMed:11274189). Highly expressed in brain (PubMed:26203138). Expressed in pancreatic islets (PubMed:31533953).

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