

PIP5K1A Polyclonal Antibody

Catalog NumberPA5-29405

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant protein fragment corresponding to a region within amino acids 1 and 180 of Human PIP5K1A	Immunocytochemistry (ICC/IF)	1:100-1:1,000
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	0.41 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	0.1M tris glycine, pH 7, with 10% glycerol		
Contains	0.01% thimerosal		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

Product specific information

Recommended positive controls: 293T, A431, H1299, HeLa, HepG2, Molt-4, Raji. Predicted reactivity: Mouse (94%), Rat (93%), Xenopus laevis (81%), Dog (95%), Pig (96%), Chicken (87%), Rhesus Monkey (97%), Chimpanzee (98%), Bovine (94%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

PIP5K1A lipid kinase or phosphatidylinositol-4-phosphate 5-kinase 1 alpha phosphorylates phosphatidylinositol-4-phosphate to form phosphatidylinositol 4,5-bisphosphate. PIP5K1 is required for Wnt3a-induced LRP6 phosphorylation at ser1490 in mammalian cells. Wnt3a stimulates the formation of phosphatidylinositol 4,5-bisphosphates through 'frizzled' and 'disheveled', the latter of which directly interacts with and activated PIP5K1. PIP5K1A-mediated PIP(2) production is crucial for HIV-1 entry and the early steps of infection in permissive lymphocytes. Overexpression of wild-type PI4P5K1A increases HIV-1 Env-mediated PIP(2) production and enhances viral replication in primary lymphocytes.

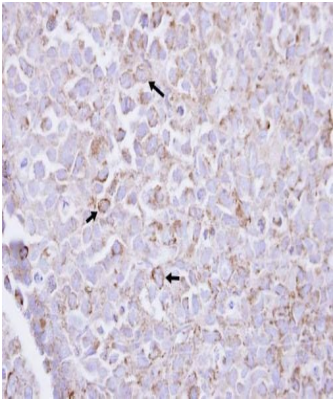
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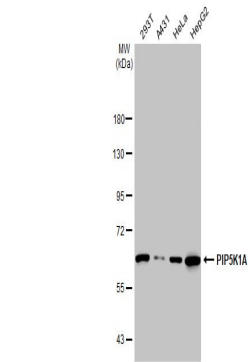
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Product Images For PIP5K1A Polyclonal Antibody



PIP5K1A Antibody (PA5-29405) in IHC (P)
Immunohistochemical analysis of paraffin-embedded CL1-0 xenograft, using PIPK I alpha (Product # PA5-29405) antibody at 1:100 dilution. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



PIP5K1A Antibody (PA5-29405) in WB
Western Blot using PIP5K1A Polyclonal Antibody (Product # PA5-29405). Various whole cell extracts (30 µg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with PIP5K1A Polyclonal Antibody (Product # PA5-29405) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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