

PIP4K2A Polyclonal Antibody

Catalog NumberPA5-31141

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Human
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 3 and 233 of Human PIP5K2 alpha	Western Blot (WB)	1:500-1:3,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 1 publications below
Concentration	1 mg/mL	* 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.	
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: A431, HeLa, Neuro2A, GL261, C8D30, mouse brain, rat brain. Predicted reactivity: Mouse (98%), Rat (98%), Xenopus laevis (83%), Pig (98%), Chicken (96%), Bovine (100%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Background/Target Information

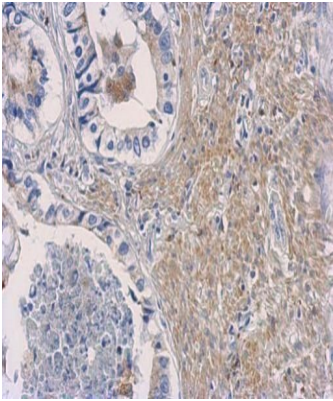
Phosphatidylinositol-5,4-bisphosphate, the precursor to second messengers of the phosphoinositide signal transduction pathways, is thought to be involved in the regulation of secretion, cell proliferation, differentiation, and motility. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. The amino acid sequence of this enzyme does not show homology to other kinases, but the recombinant protein does exhibit kinase activity. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family.

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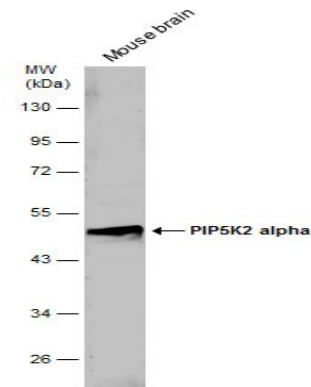
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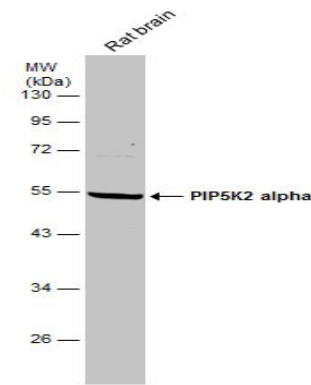
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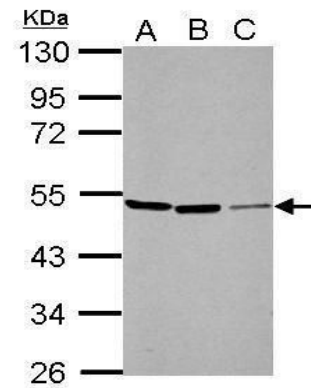
PIP4K2A Antibody (PA5-31141) in IHC (P)
Immunohistochemical analysis of PIP5K2 alpha in paraffin-embedded gastric carcinoma using a PIP5K2 alpha polyclonal antibody (Product # PA5-31141) at a dilution of 1:500.



PIP4K2A Antibody (PA5-31141) in WB
Western Blot analysis of PIP4K2A was performed by separating 50 µg of mouse tissue extract by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a PIP4K2A Polyclonal Antibody (Product # PA5-31141) at a dilution of 1:1000.



PIP4K2A Antibody (PA5-31141) in WB
Western Blot analysis of PIP4K2A was performed by separating 50 µg of rat tissue extract by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a PIP4K2A Polyclonal Antibody (Product # PA5-31141) at a dilution of 1:1,000.

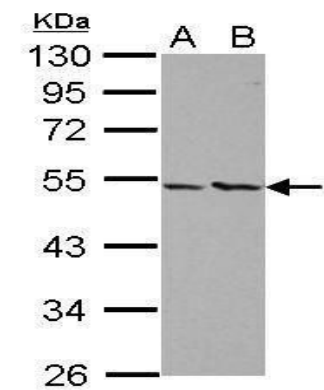


PIP4K2A Antibody (PA5-31141) in WB
Western blot analysis of PIP5K2 alpha using 30 µg of A) Neuro2A (B) GL261 and C) C8D30 lysate. Samples were loaded onto a 10% SDS-PAGE gel and probed with a PIP5K2 alpha polyclonal antibody (Product # PA5-31141) at a dilution of 1:1000.

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PIP4K2A Antibody (PA5-31141) in WB

Western blot analysis of PIP5K2 alpha using 30 µg of A) A431 and B) HeLa lysate. Samples were loaded onto a 10% SDS-PAGE gel and probed with a PIP5K2 alpha polyclonal antibody (Product # PA5-31141) at a dilution of 1:1000.

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PubMed References For PIP4K2A Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
	PA531141 was used in western blot to elucidate the molecular mechanism by which ATP-binding cassette transporter A1 regulates binding of apolipoprotein A-I and high-density lipoprotein assembly
Human / Not Cited	<p>Circulation research (2016; 119: 827)</p> <p>"PI(4,5)P2 Is Translocated by ABCA1 to the Cell Surface Where It Mediates Apolipoprotein A1 Binding and Nascent HDL Assembly."</p> <p>Author(s):Gulshan K,Brubaker G,Conger H,Wang S,Zhang R,Hazen SL,Smith JD</p> <p>PubMed Article URL:http://dx.doi.org/10.1161/CIRCRESAHA.116.308856</p>

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