

PIP5K1A Polyclonal Antibody

Catalog NumberPA5-28215

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Dilution *	
Type	Antibody	Western Blot (WB)	1:500-1:3,000
Immunogen	Recombinant fragment corresponding to a region within amino acids 249 and 562 of Human PIPK I alpha	* 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	0.46 mg/mL		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

PA5-28215 targets PIPK I alpha in WB applications and shows reactivity with Human samples. The PA5-28215 immunogen is recombinant fragment corresponding to a region within amino acids 249 and 562 of Human PIPK I alpha.

Background/Target Information

Overexpression of phosphatidylinositol phosphate 5-kinase alpha (PIP5K1alpha), which synthesizes PIP2, suppresses apoptosis, whereas a kinase-deficient mutant does not. Protection by the wild-type PIP5K1alpha is accompanied by decreases in the generation of activated caspases and of caspase 3-cleaved PARP. Protection is not mediated through PIP3 or Akt activation. An anti-apoptotic role for PIP(2) is substantiated by the finding that PIP5K1alpha is cleaved by caspase 3 during apoptosis, and cleavage inactivates PIP5K1alpha in vitro. Mutation of the P(4) position (D279A) of the PIP5K1alpha caspase 3 cleavage consensus prevents cleavage in vitro, and during apoptosis in vivo. Significantly, the caspase 3-resistant PIP5K1alpha mutant is more effective in suppressing apoptosis than the wild-type kinase. PIP2 is a direct regulator of apical and effector caspases in the death receptor and mitochondrial pathways, and PIP5K1alpha inactivation contributes to the progression of apoptosis.

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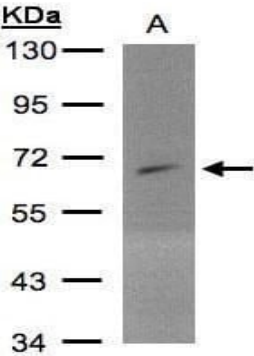
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PIP5K1A Antibody (PA5-28215) in WB

Western blot analysis of PIPK I alpha using 30µg of 293T lysate. Samples were loaded onto a 7.5% SDS-PAGE gel and probed with a PIPK I alpha polyclonal antibody (Product # PA5-28215) at a dilution of 1:1000.



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