e at -20C	PI4 Kinase Antibody		Cell Signaling
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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:490		Web:	info@cellsignal.com cellsignal.com
#		3 Trask Lane   Danvers	Massachusetts 01923 USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	<b>MW (kDa):</b> 230	Source: Rabbit	UniProt ID: #P42356	Entrez-Gene Id: 5297			
Product Usage	Ар	plication				Dilution			
Information	We	stern Blotting				1:1000			
	Imr	nunoprecipitation				1:50			
	Imr	nunofluorescence (I	mmunocytochemis	try)		1:100			
Storage	Sup 20°C	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		PI4 Kinase Antibody detects endogenous levels of total PI4 Kinase isoform 230.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the human sequence of PI4 Kinase. Antibodies are purified by protein A and peptide affinity chromatography.							
Background Background Refere	Inos facto phos prod (DA4 class class class com men the p sens ences 1. W 2. He 3. Ba 4. Na 5. Ba 6. Pe	itol phospholipids hi ors and neurotransm sphatidylinositol-4-p sphatidylinositol-4,5 lucing the two intrace G) (1). PI4K230, PI4 sified according to ti sified into type II ani- partments suggestiin hbranes of mitochor blasma membrane a sitive to wortmannin Yong, K. and Cantley eilmeyer Jr., L. M. e alla, A. et al. (2000) akagawa, T. et al. (1 alla, A. et al. (2002) elyvas, I. F. et al. (2003)	ave an important ro nitters. Phosphatidy hosphate (PIP). In -bisphosphate (PIP) ellular second mes 1K92 and PI4K55 a heir molecular weig d III enzymes (2). A ng various tasks. P ndria, PI4K92 at the and endosomes (3- as well as specific r, L.C. (1994) J. Bio t al. (2003) IUBMB Exp. Brain Res. 13 J. Biol. Chem. 277 001) J. Med. Chem	le in intracellular sig linositol 4-kinase p a second step, PIP 2), and PIP2 is sub sengers, inositol 1, re three PI4 kinase hts of 230, 92 and i li isoforms are loca l4K230 is located ar Golgi apparatus ar 5). PI4K230 is pred ally and irreversibly <i>I. Chem.</i> 269, 2887 <i>Life.</i> 55, 59-65. 4, 279-288. 20, 643-649. , 20041-20050. 44, 627-632.	gnaling in response to h hosphorylates phosphat is further phosphorylates sequently hydrolyzed by 4,5-triphosphate (IP3) a isoforms that have beer 55 kD. Previously, PI4 k ted on distinct membrar t the endoplasmatic reticul ominantly expressed in inhibited by cyclitol deri '8-28884.	ormones, growth idylinositol (PI) to ed to y phospholipase C, nd diacylglycerol n characterized and inases were les and cellular culum and outer lum, and PI4K55 at brain and moderately vatives (3, 6).			
Species Reactivity	Spec	ies reactivity is dete	rmined by testing i	n at least one appro	oved application (e.g., w	estern blot).			
Western Blot Buffe	r IMPC 0.1%	DRTANT: For wester Tween® 20 at 4°C	n blots, incubate m with gentle shaking	embrane with dilute I, overnight.	ed primary antibody in 5 <sup>0</sup>	% w/v BSA, 1X TBS,			
Applications Key	WB:	Western Blotting IF	: Immunoprecipita	ion IF-IC: Immunof	luorescence (Immunocy	tochemistry)			
Cross-Reactivity K	ey H: hu X: Xe GP: 0	ıman <b>M:</b> mouse <b>R:</b> ı enopus <b>Z:</b> zebrafish Guinea Pig <b>Rab:</b> rat	rat <b>Hm:</b> hamster <b>M</b> <b>B:</b> bovine <b>Dg:</b> dog bbit <b>All:</b> all species	k: monkey Vir: virus Pg: pig Sc: S. cere expected	s <b>Mi:</b> mink <b>C:</b> chicken <b>D</b> evisiae <b>Ce:</b> C. elegans <b>F</b>	<b>m:</b> D. melanogaster <b>Ir:</b> horse			
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