

#54322 Store at -20°C

IP6K3 (D907J) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H	Endogenous	46	Rabbit IgG	#Q96PC2	117283

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	IP6K3 (D907J) Rabbit mAb recognizes endogenous levels of total IP6K3 protein. This antibody does not cross-react with IP6K1 or IP6K2 proteins.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala140 of human IP6K3 protein.	
Background	Inositol hexakisphosphate kinase 3 (IP6K3) is a member of the inositol hexakisphosphate kinase family (1). These kinases are essential for producing inositol pyrophosphates (1). IP6K3 is highly expressed in the cerebellar Purkinje cells, interacts with adducin and spectrin, and plays an important role in determining the cytoskeletal organization and function of these cells (1). In addition, the expression of IP6K3 increases upon treatment with titanium dioxide nanoparticles suggesting a role for IP6K3 in the genotoxicity caused by these nanoparticles (2).	
Background References	1. Fu, C. et al. (2015) <i>J Neurosci</i> 35, 11056-67. 2. El-Said, K.S. et al. (2014) <i>J Nanobiotechnology</i> 12, 48.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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