#14812 Store at -20C

PLK2 (D5R2B) Rabbit mAb



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Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NYY3	Entrez-Gene Id: 10769
Product Usage Information	•	pplication		Dilution		
		estern Blotting		1:1000		
	lm	munoprecipitation		1:200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sensitivity		PLK2 (D5R2B) Rabbit mAb recognizes endogenous levels of total PLK2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro67 of human PLK2 protein.				
Background	nor spir che cell PLF cen	At least five distinct polo-like kinases exist in mammalian cells: PLK1, PLK2, PLK3, PLK4/SAK, and the non-catalytic PLK5 protein (1). The p53-induced PLK2 functions in centriole duplication, as well as at spindle and S phase checkpoints (3-5). Research studies show that PLK2 expression is related to chemosensitivity in ovarian cancer. Downregulation of PLK2 expression in chemosensitive ovarian cancer cells is associated with a greater chance of relapse in patients following specific treatment regimens (6). PLK2 can phosphorylate α -synuclein at Ser129, which is a site shown to be involved in diseases of the central nervous system (7,8). Polo-like kinase 2 also phosphorylates GEFs and GAPs, regulating Ras and Rap small GTPase function in neurons (9).				
Background Refere	2. C 3. E 4. N 5. C 6. S 7. II 8. E	 de Cárcer, G. et al. (2011) Cell Cycle 10, 2255-62. Cizmecioglu, O. et al. (2008) Cell Cycle 7, 3548-55. Burns, T.F. et al. (2003) Mol Cell Biol 23, 5556-71. Matthew, E.M. et al. (2007) Cell Cycle 6, 2571-8. Cizmecioglu, O. et al. (2012) J Cell Sci 125, 981-92. Syed, N. et al. (2011) Cancer Res 71, 3317-27. Inglis, K.J. et al. (2009) J Biol Chem 284, 2598-602. Bergeron, M. et al. (2014) Neuroscience 256, 72-82. Lee, K.J. et al. (2011) Neuron 69, 957-73. 				

Species Reactivity Speci

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 BSA, 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

CD. Cuinea Dia Dah, rabbit All, all anguing ayanatad

GP: Guinea Pig Rab: rabbit All: all species expected

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