

PLK2 (D5R2B) Rabbit mAb



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Applications: W, IP	Reactivity:	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NYY3	Entrez-Gene Id: 10769
Product Usage Information		Application Western Blotting Immunoprecipitation	73		Dilution 1:1000 1:200	10.03
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.				
At least five distinct polo-like kinases exist in mammalian cells: PLK1, PLK2, PLK3, PLK4/SAK, at non-catalytic PLK5 protein (1). The p53-induced PLK2 functions in centriole duplication, as well spindle and S phase checkpoints (3-5). Research studies show that PLK2 expression is related chemosensitivity in ovarian cancer. Downregulation of PLK2 expression in chemosensitive ova cancer cells is associated with a greater chance of relapse in patients following specific treatm regimens (6). PLK2 can phosphorylate α-synuclein at Ser129, which is a site shown to be involved diseases of the central nervous system (7,8). Polo-like kinase 2 also phosphorylates GEFs and regulating Ras and Rap small GTPase function in neurons (9).						on, as well as at s related to sitive ovarian ific treatment o be involved in
Background Re	ferences	1. de Cárcer, G. et al. (2011) <i>Cell Cycle</i> 10, 2255-62. 2. Cizmecioglu, O. et al. (2008) <i>Cell Cycle</i> 7, 3548-55. 3. Burns, T.F. et al. (2003) <i>Mol Cell Biol</i> 23, 5556-71. 4. Matthew, E.M. et al. (2007) <i>Cell Cycle</i> 6, 2571-8. 5. Cizmecioglu, O. et al. (2012) <i>J Cell Sci</i> 125, 981-92. 6. Syed, N. et al. (2011) <i>Cancer Res</i> 71, 3317-27. 7. Inglis, K.J. et al. (2009) <i>J Biol Chem</i> 284, 2598-602. 8. Bergeron, M. et al. (2014) <i>Neuroscience</i> 256, 72-82. 9. Lee, K.J. et al. (2011) <i>Neuron</i> 69, 957-73.				

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 BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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