

## DYRK2 (D9A3K) Rabbit mAb



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

<b>Applications:</b> W	<b>Reactivity:</b> H M R Hm Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 60, 66	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q92630	Entrez-Gene Id: 8445	
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000		
Storage				s), 150 mM NaCl, 100 μg, ot aliquot the antibody.	/ml BSA, 50% glycei	ol and less than	
Specificity/Sensitivity		DYRK2 (D9A3K) Rabbit mAb recognizes endogenous levels of total DYRK2 protein. The antibody recognizes both known isoforms, 66 and 60 kDa, of DYRK2.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly545 of human DYRK2 protein.					
Background		capable of phosphory identified based on he Seven mammalian iso DYRK4, and DYRK4B. I seen across the DYRK activation loop; phosp kinase activity. DYRKs phosphorylate substruction by Ser46 following cellulations are demonstrated on the series of the serie	lating proteins at bomology to the year forms have been d Differences in subst family (4,5). All DYF phorylation of the so typically autophosy ates at Ser and Thr lay a role in checkp ar damage, leading verexpression of DN	ecificity tyrosine-phosphoth Tyr and Ser/Thr residet Yak1 (2) and the <i>Drosc</i> iscovered, including DYR rate specificity, expression Tyr residue (e.g. Tohorylate the Tyr residue residues (1,6). oint control of the cell cyrosidicty in esophageal and edictor of chemotherapy	dues (1). The DYRK ophila minibrain (m RK1A, DYRK1B, DYRI on, and subcellular Tyr motif in the cat yr312 of DYRK1A) is within their activa ycle. DYRK2 can pho ototic response (7). lung adenocarcino	family was hb) kinases (3). k(1C, DYRK2, DYRK3, localization are alytic domain necessary for tion loop, but psphorylate p53 at Research studies mas (8), with DYRK2	
Background Refe	erences	2. Garrett, S. and Broa 3. Tejedor, F. et al. (1994. Kentrup, H. et al. (15. Becker, W. et al. (196. Lochhead, P.A. et al. 7. Taira, N. et al. (20078. Miller, C.T. et al. (2007	cker, W. and Joost, H.G. (1999) <i>Prog. Nucleic Acid Res. Mol. Biol.</i> 62, 1-17.  prrett, S. and Broach, J. (1989) <i>Genes Dev.</i> 3, 1336-1348.  jedor, F. et al. (1995) <i>Neuron</i> 14, 287-301.  ntrup, H. et al. (1996) <i>J. Biol. Chem.</i> 271, 3488-3495.  cker, W. et al. (1998) <i>J. Biol. Chem.</i> 273, 25893-25902.  chhead, P.A. et al. (2005) <i>Cell</i> 121, 925-936.  ira, N. et al. (2007) <i>Mol Cell</i> 25, 725-38.  ller, C.T. et al. (2003) <i>Cancer Res</i> 63, 4136-43.  mashita, S. et al. (2009) <i>Anticancer Res</i> 29, 2753-7.				

**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

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat Hm: Hamster Mk: Monkey

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