	DYRK1B Antibody		ell Signaling снмогоду <sup>®</sup>
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com
)3		Support:	877-678-TECH (8324)
#2703		Web:	info@cellsignal.com cellsignal.com
#	3	Trask Lane   Danvers   Ma	ssachusetts   01923   USA

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

	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:	
WB, IP	H M R Mk	Endogenous	70-80	Rabbit	#Q9Y463	9149	
Product Usage	Ар	plication			Dilution		
Information	We	estern Blotting			1:1000		
	Im	munoprecipitation			1:50		
Storage		pplied in 10 mM sodi C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –	
Specificity / Sensitiv		DYRK1B Antibody detects endogenous levels of total DYRK1B protein. This antibody detects the three major alternative splicing variants reported for DYRK1B.					
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxyl terminus of human DYRK1B. Antibodies were purified by protein affintiy chromatography.					
Background	of p hom isofr DYF pho DYF sub In c four patt cell	hosphorylating prote nology to the yeast Y orms have been disc RK4B. Differences in RK family (4,5). All D sphorylation of the s RKs typically autoph strates at Ser and T ontrast to the ubiqui nd in the testis and n terns and functional	eins at both Tyr and Yak1 (2) and the Dr covered, including a substrate specific DYRK proteins have second Tyr residue osphorylate the Tyr hr residues (1,6). tous DYRK1A, DYR nuscle (7,8). Three properties (9). DYF n, cell cycle progres	d Ser/Thr residues (: osophila minibrain ( DYRK1A, DYRK1B, ity, expression, and e a Tyr-X-Tyr motif ir (e.g. Tyr312 of DYF r residue within their RK1B exhibits relativ major DYRK1B spl RK1B plays a critical ssion and survival (:	osphorylated and regula 1). The DYRK family was mnb) kinases (3). Sever DYRK1C, DYRK2, DYF subcellular localization a the catalytic domain ac RK1A) is necessary for kin activation loop, but pho vely restricted expression ice variants demonstrated role in myoblast differer 10,11). In addition, DYRI	s identified based on mammalian RK3, DYRK4, and are seen across the tivation loop; inase activity. sphorylate n with highest levels e distinct expression ntiation by affecting	
Background Referer	2. G 3. Tr 4. K 5. B 6. L 7. L 8. L 9. L 10. M 11. D 12. D	ecker, W. and Joost Garrett, S. and Broac ejedor, F. et al. (199 entrup, H. et al. (199 ochhead, P.A. et al. eder, S. et al. (1999) ee, K. et al. (2003) dercer, S. et al. (2003) fercer, S. E. and Frie Deng, X. et al. (2003) Deng, X. et al. (2006) fercer, S.E. et al. (2006)	h, J. (1989) Genes 5) Neuron 14, 287- 96) J. Biol. Chem. 2 (2005) Cell 121, 92 Biochem. Biophys Cancer Res. 60, 36 Biochem. J. 372, dman, E. (2006) C J. Biol. Chem. 278 Cancer Res. 66, 4	<ul> <li>Dev. 3, 1336-1348.</li> <li>301.</li> <li>271, 3488-3495.</li> <li>73, 25893-25902.</li> <li>25-936.</li> <li>31-3637.</li> <li>881-888.</li> <li>ell Biochem. Biophy</li> <li>41347-41354.</li> <li>149-4158.</li> </ul>	64, 474-479.		
Species Reactivity	Spec	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).	
Western Blot Buffer		ORTANT: For wester 6 Tween® 20 at 4°C			ed primary antibody in 59	% w/v BSA, 1X TBS,	
Applications Key	WB	: Western Blotting IF	<b>P:</b> Immunoprecipita	tion			

1/1/24, 11:19 AM Cross-Reactivity Key	DYRK1B Antibody (#2703) Datasheet Without Images Cell Signaling Technology 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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