Phospho-PDGF Receptor α<br/>(Tyr754) (23B2) Rabbit mAbCell Signaling<br/>T E C H N O L O G Y°Orders:877-616-CELL (2355)<br/>orders@cellsignal.com

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

Applications: WB, IP	Reactivity: H M	: Sensitivity: Endogenous	<b>MW (kDa):</b> 190	Source/Isotype: Rabbit	UniProt ID: #P16234	Entrez-Gene Id: 5156
Product Usage Information		Application			Dilution	
mormation		Western Blotting			1:1000	
		Immunoprecipitation			1:50	
Storage		Supplied in 10 mM sodiu 0.02% sodium azide. Sto	u u	,.	10 00	rol and less than
Specificity / Sensit		Phospho-PDGF Recepto when phosphorylated at				
Species predicted react based on 100 sequence homolog	0%	Rat				
Source / Purificatio		Monoclonal antibody is p residues surrounding Tyr		•	synthetic phosphopepti	de corresponding to
Background		Platelet derived growth fa (PDGF AA, PDGF AB, P) related receptor tyrosine and PDGFR $\beta$ share 75% the kinase insert and car PDGFR $\alpha$ homodimers bi bind PDGF BB and DD is $\beta$ binds PDGF B, C, and can each form heterodim total number of receptors responsive differences a dimerization and autopho containing signal transdu of different signaling path actin reorganization, mig docking site for PI3 kinas val-Pro-Met-Leu) inhibit f kinase with PDGFR $\beta$ (7) Interestingly, PDGFR-alp heterodimeric complex a residue permits the bindi pathway(s) from the beta receptor complexes (8).	DGF BB, PDGF kinases, PDGF b to 85% sequer boxy-terminal ta nd all PDGF iso soforms, as well D homodimers, hers with EGFR, s present and in mong cell types boxphorylation, for action molecules hways are initiat ration, and diffe se (6). Phosphor the association . Tyr740 is also oha was found to s compared to t ng of a specific	CC, and PDGF DD) that receptor α (PDGFRα) at ince homology between the ail regions display a lower forms except those con- as the PDGF AB heter as well as the P	at bind in a specific patt and PDGF receptor $\beta$ (F their two intracellular kir er level (27% to 28%) of taining PDGF D. PDGF odimer. The heteromeric B heterodimer (2). PDG by PDGF (3). Various of mposition, which may a igand binding induces re activation of cytoplasmic GAP, PI3 kinase, PLCY, a eceptors and lead to co the kinase-insert regior erived from Tyr751 of P SH2 domain of the p85 hediated PI3 kinase acti an additional tyrosine re mer. Phosphorylation of ein, and thereby initiates	rern to two closely PDGFRβ). PDGFRα hase domains, while f homology (1). FRβ homodimers c PDGF receptor α/ GFRα and PDGFRβ cells differ in the account for ecceptor c SH2 domain- and NCK. A number ontrol of cell growth, n of PDGFRβ is the DGFRβ (pTyr751- subunit of PI3 ivation (8). esidue, Tyr754, in a t this tyrosine s signaling

24, 1:27 PM Phospho Background References	<ul> <li>PDGF Receptor α (Tyr754) (23B2) Rabbit mAb (#2992) Datasheet Without Images Cell Signaling</li> <li>1. Deuel, T.F. et al. (1988) <i>Biofactors</i> 1, 213-217.</li> <li>2. Bergsten, E. et al. (2001) <i>Nat. Cell Biol.</i> 3, 512-516.</li> <li>3. Betsholtz, C. et al. (2001) <i>Bioessays</i> 23, 494-507.</li> <li>4. Coughlin, S.R. et al. (1988) <i>Prog. Clin. Biol. Res.</i> 266, 39-45.</li> <li>5. Ostman, A. and Heldin, C.H. (2001) <i>Adv. Cancer Res.</i> 80, 1-38.</li> <li>6. Panayotou, G. et al. (1992) <i>EMBO J.</i> 11, 4261-4272.</li> <li>7. Ramalingam, K. et al. (1995) <i>Bioorg. Med. Chem.</i> 3, 1263-1272.</li> <li>8. Kashishian, A. et al. (1992) <i>EMBO J.</i> 11, 1373-1382.</li> <li>9. Rupp, E. et al. (1994) <i>Eur J Biochem</i> 225, 29-41.</li> <li>10. Soroceanu, L. et al. (2008) <i>Nature</i> 455, 391-5.</li> </ul>		
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).		
Western Blot Buffer	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	<ul> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>		
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