

WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 190	Source: Rabbit	UniProt ID: #P16234	Entrez-Gene Id 5156
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sod 20°C. Do not aliquot the		5), 150 mM NaCl, 10	00 μg/ml BSA and 50% (glycerol. Store at –
Specificity / Sensi	- 1		cross-react with act	ivated PDGFRβ. Bu	Rα only when phospho It it may cross-react with pr.	
Source / Purificat	t	•	Tyr1018 of human	-	h a synthetic phosphop es are purified by protei	
Background	(r f f f f f c c c c c c c c c c c c c c	PDGF AA, PDGF AB, elated receptor tyrosin and PDGFRβ share 75 he kinase insert and ca PDGFRα homodimers bind PDGF BB and DD binds PDGF B, C, an can each form heterodi otal number of recepto esponsive differences limerization and autopl containing signal transco of different signaling pa actin reorganization, mi locking site for PI3 kina /al-Pro-Met-Leu) inhibi cinase with PDGFRβ (7 Phosphorylation of PDC	PDGF BB, PDGF C e kinases, PDGF C e kinases, PDGF re % to 85% sequence arboxy-terminal tail bind all PDGF isofo isoforms, as well a d D homodimers, a mers with EGFR, w rs present and in th among cell types to hosphorylation, follo duction molecules, s thways are initiated gration, and differe ase (6). Phosphoryl t the association of the association of the association of the association of the association of the association of the association of the association of the association of the association of the association of the association of the association of	C, and PDGF DD) t eceptor α (PDGFRa) e homology between regions display a low rms except those co s the PDGF AB hete s well as the PDGF which is also activate receptor subunit of PDGF binding (4). wed by binding and such as GRB2, Src, I by activated PDGF nitiation (5). Tyr751 i ated pentapeptides the carboxy-termina quired for PDGFRβ- vas identified at Cell n for phosphorylation	several disulphide-bond hat bind in a specific pa o and PDGF receptor β (n their two intracellular k wer level (27% to 28%) ontaining PDGF D. PDG erodimer. The heterome AB heterodimer (2). PD d by PDGF (3). Various composition, which may Ligand binding induces a activation of cytoplasm GAP, PI3 kinase, PLCy receptors and lead to c n the kinase-insert regic derived from Tyr751 of al SH2 domain of the p8 mediated PI3 kinase ac Signaling Technology (in n site discovery. For mo nowledge base.	ttern to two closely PDGFRβ). PDGFRα inase domains, while of homology (1). FRβ homodimers ric PDGF receptor α/ GFRα and PDGFRβ cells differ in the account for receptor ic SH2 domain- and NCK. A number ontrol of cell growth, on of PDGFRβ is the PDGFRβ (pTyr751- 5 subunit of PI3 tivation (8). CST) using
Background Refe	rences 1	Deuel, T.F. et al. (198 2. Bergsten, E. et al. (29	,			

Western Blot BufferIMPORTANT: 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.

4/6/24, 10:34 AM	Phospho-PDGF Receptor α (Tyr1018) Antibody (#4547) Datasheet Without Images Cell Signaling Technology
Applications Key	WB: Western Blotting
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 GP: Guinea Pig Rab: rabbit All: all species expected
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