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Phospho-PDGF Receptor β (Tyr1009) (42F9) Rabbit mAb

Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	<b>MW (kDa):</b> 190	Source/Isotype: Rabbit	UniProt ID: #P09619	Entrez-Gene Id: 5159
Product Usage Information	١	Application Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		••	ŭ	7.5), 150 mM NaCl, 100 o not aliquot the antibody	10 0,	erol and less than
Specificity / Sensit	0	nly when phosphorylate	ed at Tyr1009. T	2F9) Rabbit mAb detec he antibody may slightly ated protein tyrosine kir	cross-react with other	
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1009 of human PDGF receptor $\beta$ .				
Background	(F re au th P bi β ca to to to to du du to to to to to to to to to to to to to	PDGF AA, PDGF AB, P elated receptor tyrosine nd PDGFRβ share 75% he kinase insert and car PDGFRα homodimers bi ind PDGF BB and DD is binds PDGF B, C, and an each form heterodim otal number of receptors esponsive differences a imerization and autopho ontaining signal transdu f different signaling path ctin reorganization, mig ocking site for PI3 kinas 'al-Pro-Met-Leu) inhibit f inase with PDGFRβ (7) activation of the PDGFR yr1009. Mutation analys utophosphorylation of th	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 pophorylation, fo uction molecules ways are initiat ration, and diffe se (6). Phosphor the association . Tyr740 is also β leads to autop sis has shown th he PDGFRβ at <sup>-</sup>	mily proteins exist as set CC, and PDGF DD) that receptor $\alpha$ (PDGFR $\alpha$ ) at receptor $\alpha$ (PDGFR $\alpha$ ) at receptor $\alpha$ (PDGFR $\alpha$ ) at the homology between the ail regions display a lower forms except those con- as the PDGF AB heter as well as the PDGF AI which is also activated the receptor subunit con- to PDGF binding (4). Li- billowed by binding and a s, such as GRB2, Src, G ed by activated PDGF re- rentiation (5). Tyr751 in rylated pentapeptides de- of the carboxy-terminal s- required for PDGFR $\beta$ -m bhosphorylation on a num- hat PDGF-stimulated PL Fyr1009 and Tyr1021 (9) pontaining tyrosine phosp	at bind in a specific patt and PDGF receptor β (F heir two intracellular kind er level (27% to 28%) of taining PDGF D. PDGF odimer. The heteromeri B heterodimer (2). PDG by PDGF (3). Various of mposition, which may a gand binding induces r activation of cytoplasmic AP, PI3 kinase, PLCγ, eceptors and lead to co the kinase-insert region erived from Tyr751 of P SH2 domain of the p85 hediated PI3 kinase act mber of tyrosine residu Cy signaling is depend b. Phosphorylated Tyr10	tern to two closely PDGFR $\beta$ ). PDGFR $\alpha$ nase domains, while of homology (1). FR $\beta$ homodimers ic PDGF receptor $\alpha$ / GFR $\alpha$ and PDGFR $\beta$ cells differ in the account for receptor c SH2 domain- and NCK. A number ontrol of cell growth, n of PDGFR $\beta$ is the PDGFR $\beta$ (pTyr751- 5 subunit of PI3 ivation (8). les, including lent on 009 also serves as a
Background Refer	2. 3. 4. 5. 6. 7. 8. 9.	. Panayotou, G. et al. (1	01) Nat. Cell Bio 01) Bioessays 2 1988) Prog. Clin 1, C.H. (2001) A 1992) EMBO J. (1995) Bioorg. I 1992) EMBO J. 1992) EMBO J.	ol. 3, 512-516. 23, 494-507. . Biol. Res. 266, 39-45. dv. Cancer Res. 80, 1-3 11, 4261-4272. Med. Chem. 3, 1263-127 11, 1373-1382. 11, 3911-3919.		

1/1/24, 9:19 AM	Phospho-PDGF Receptor $eta$ (Tyr1009) (42F9) Rabbit mAb (#3124) Datasheet Without Images Cell Signaling T				
Species Reacti	ivity	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		WB: Western Blotting IP: Immunoprecipitation			
Cross-Reactivi	ity 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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