# 1564

# PDGF Receptor β (C82A3) Rabbit mAb



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

<b>Applications:</b> W, IHC-P	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 190	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P09619	Entrez-Gene Id 5159
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemistry (Paraffin)		<b>Dilution</b> 1:1000 1:200 - 1:800		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #48392.				
Specificity/Sensitivity		PDGF Receptor $\beta$ (C82A3) Rabbit mAb detects endogenous levels of total PDGF receptor $\beta$ protein. The antibody does not cross-react with other PDGF receptor family members.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a GST fusion protein containing a carboxyl-terminal fragment of human PDGF receptor $\beta$ .				
Background		isoforms (PDGF ÅA, P closely related recept PDGFRα and PDGFRβ domains, while the ki homology (1). PDGFR homodimers bind PD PDGF receptor α/β bi PDGFRα and PDGFRβ Various cells differ in which may account foinduces receptor dim cytoplasmic SH2 dom PLCγ, and NCK. A nur lead to control of cell kinase-insert region of derived from Tyr751.	PDGF AB, PDGF BB, F tor tyrosine kinases, share 75% to 85% sinase insert and car to homodimers bind DGF BB and DD isofo nds PDGF B, C, and so can each form hete the total number of or responsive different perization and autop nain-containing sign mber of different sig growth, actin reorg of PDGFRβ is the do of PDGFRβ (pTyr751 of the p85 subunit	nily proteins exist as seven DGF CC, and PDGF DD) PDGF receptor α (PDGF sequence homology betwoxy-terminal tail region all PDGF isoforms excens, as well as the PDG D homodimers, as well as receptors present and fences among cell types thosphorylation, followe al transduction moleculinaling pathways are initianization, migration, and cking site for PI3 kinase -Val-Pro-Met-Leu) inhibiof PI3 kinase with PDGF 8).	that bind in a speci Ra) and PDGF recel ween their two intr is display a lower le pt those containing F AB heterodimer. T as the PDGF AB het nich is also activated in the receptor sub to PDGF binding (4) d by binding and a es, such as GRB2, S tiated by activated in d differentiation (5) (6). Phosphorylated t the association of	fic pattern to two otor β (PDGFRβ). acellular kinase evel (27% to 28%) of pDGF D. PDGFRβ he heteromeric erodimer (2). d by PDGF (3). unit composition, Ligand binding ctivation of rc, GAP, PI3 kinase, PDGF receptors and pentapeptides the carboxy-
Background References		1. Deuel, T.F. et al. (1988) <i>Biofactors</i> 1, 213-217. 2. Bergsten, E. et al. (2001) <i>Nat. Cell Biol.</i> 3, 512-516. 3. Betsholtz, C. et al. (2001) <i>Bioessays</i> 23, 494-507. 4. Coughlin, S.R. et al. (1988) <i>Prog. Clin. Biol. Res.</i> 266, 39-45. 5. Ostman, A. and Heldin, C.H. (2001) <i>Adv. Cancer Res.</i> 80, 1-38. 6. Panayotou, G. et al. (1992) <i>EMBO J.</i> 11, 4261-4272. 7. Ramalingam, K. et al. (1995) <i>Bioorg. Med. Chem.</i> 3, 1263-1272. 8. Kashishian, A. et al. (1992) <i>EMBO J.</i> 11, 1373-1382.				

**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 IHC-P: Immunohistochemistry (Paraffin)

**Cross-Reactivity Key** 

H: Human M: Mouse R: Rat

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