

## Datasheet

### PDGFRB (phospho Y751) polyclonal antibody

**Catalog Number:** PAB16955

**Regulation Status:** For research use only (RUO)

**Product Description:** Rabbit polyclonal antibody raised against synthetic phosphopeptide of PDGFRB.

**Immunogen:** Synthetic phosphopeptide corresponding to residues surrounding Y751 of human PDGFRB.

**Host:** Rabbit

**Reactivity:** Human, Mouse, Rat

**Applications:** ELISA, IHC-P, WB-Ce

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This antibody detects endogenous levels of PDGFRB only when phosphorylated at tyrosine 751.

**Form:** Liquid

**Recommend Usage:** Western Blot (1:500-1:1000)

Immunohistochemistry (1:50-1:100)

ELISA (1:4000)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)

**Storage Instruction:** Store at 4°C for three months. For long term storage store at -20°C.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 5159

**Gene Symbol:** PDGFRB

**Gene Alias:** CD140B, JTK12, PDGF-R-beta, PDGFR, PDGFR1

**Gene Summary:** This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. This gene is flanked on chromosome 5 by the genes for granulocyte-macrophage colony-stimulating factor and macrophage-colony stimulating factor receptor; all three genes may be implicated in the 5-q syndrome. A translocation between chromosomes 5 and 12, that fuses this gene to that of the translocation, ETV6, leukemia gene, results in chronic myeloproliferative disorder with eosinophilia. [provided by RefSeq]

#### References:

1. PDGF-D is a specific, protease-activated ligand for the PDGF beta-receptor. Bergsten E, Uutela M, Li X, Pietras K, Ostman A, Heldin CH, Alitalo K, Eriksson U. *Nat Cell Biol.* 2001 May;3(5):512-6.
2. Site-selective dephosphorylation of the platelet-derived growth factor beta-receptor by the receptor-like protein-tyrosine phosphatase DEP-1. Kovalenko M, Denner K, Sandstrom J, Persson C, Gross S, Jandt E, Vilella R, Bohmer F, Ostman A. *J Biol Chem.* 2000 May 26;275(21):16219-26.
3. Structure-activity studies of phosphorylated peptide inhibitors of the association of phosphatidylinositol 3-kinase with PDGF-beta receptor. Ramalingam K, Eaton SR, Cody WL, Lu GH, Panek RL, Waite LA, Decker SJ, Keiser JA, Doherty AM. *Bioorg Med Chem.* 1995 Sep;3(9):1263-72.