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Box 1 | Basic Info

Cat. No.	ABP-PAB-10947
Animal ID	RB2003/2004
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_002609
Amount	100 µg

Alternative Name(s): JTK12, PDGFR, CD140B, PDGFR1, PDGF-R-beta

PDGFRB, Platelet-derived growth factor receptor beta polyclonal antibody

Platelet-derived growth factor receptor beta (PDGFRB) is a cell surface tyrosine kinase receptor that binds to members of the platelet-derived growth factor family. These growth factors (PDGFs) are mitogens for cells of mesenchymal origin. A translocation between chromosomes 5 and 12, that fuses the PDGFRB gene to the ETS leukemia gene, results in chronic myelomonocytic leukemia.

Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

Immunogen

KLH conjugated synthetic peptide comprised of amino acids 1028 - 1042 [PKPEVADEGPLEGSP] of the human platelet-derived growth factor receptor beta (PDGFRB) protein.

Application:

Tested by peptide-specific ELISA (1:1,000).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Kovalenko M, Denner K, Sandstrom J, Persson C, Gross S, Jandt E, Vilella R, Bohmer F, Ostman A: Site-selective dephosphorylation of the platelet-derived growth factor beta-receptor by the receptor-like protein-tyrosine phosphatase DEP-1. *J. Biol. Chem.* 275(21): 16219-16226 (2000). Steer EJ, Cross NC: Myeloproliferative disorders with translocations of chromosome 5q31-35: role of the platelet-derived growth factor receptor Beta. *Acta Haematol.* 107(2): 113-122 (2002). Review.
2. Wu H, Windmiller DA, Wang L, Backer JM: YXXM motifs in the PDGF-beta receptor serve dual roles as phosphoinositide 3-kinase binding motifs and tyrosine-based endocytic sorting signals. *J. Biol. Chem.* 278(42): 40425-40428 (2003).