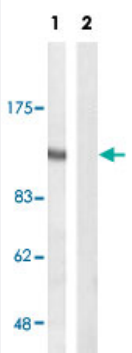
PDGFRB (phospho Y751) polyclonal antibody

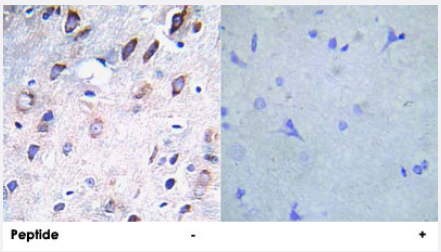
Catalog # PAB16955 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cells treated with PDGF.
Lane 1 : Using PDGFRB (phospho Tyr751) polyclonal antibody (Cat # PAB16955).
Lane 2 : Using the same antibody preincubated with synthesized peptide.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue usingPDGFRB (phospho Tyr751) polyclonal antibody (Cat # PAB16955).

Specification

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
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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

  Western blot analysis of extracts from NIH/3T3 cells treated with PDGF.
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  Lane 2 : Using the same antibody preincubated with synthesized peptide.

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — PDGFRB

Entrez GeneID	5159
Protein Accession#	P09619
Gene Name	PDGFRB
Gene Alias	CD140B, JTK12, PDGF-R-beta, PDGFR, PDGFR1
Gene Description	platelet-derived growth factor receptor, beta polypeptide
Omim ID	131440 173410
Gene Ontology	Hyperlink

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
Other Designations	beta platelet-derived growth factor receptor|platelet-derived growth factor receptor beta|soluble PDGFRb variant 1

Publication Reference

- 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.

  Nature Cell Biology 2001 May; 3(5):512.

- 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.

  The Journal of Biological Chemistry 2000 May; 275(21):16219.

- 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.

  Bioorganic & Medicinal Chemistry 1995 Sep; 3(9):1263.

Pathway

- Calcium signaling pathway
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Focal adhesion
- Gap junction
- Glioma

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton

Disease

- Acute Disease
- Adenocarcinoma
- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Disease Models
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hyperparathyroidism
- Kidney Failure
- Leukemia
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis
- Ovarian Neoplasms
- Schizophrenia
- Subdural Effusion