Human Phospho-PDGF Rβ (Y751) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF1767

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PDGF Rβ when phosphorylated at Y751 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human PDGF Rβ Y751 site
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

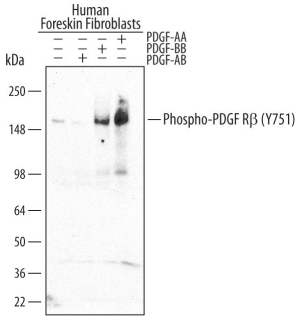
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Simple Western	5 µg/mL	See Below

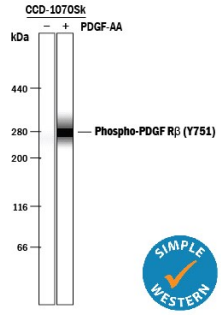
DATA

Western Blot



Detection of Human Phospho-PDGF Rβ (Y751) by Western Blot. Western blot shows lysates of human foreskin fibroblast untreated (-) or treated (+) with 100 ng/mL Recombinant Human PDGF-AA, PDGF-AB, and PDGF-BB (Catalog # 221-AA, 222-AB, and 220-BB, respectively) for 10 minutes. PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human Phospho-PDGF Rβ (Y751) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1767), followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-PDGF Rβ (Y751) at approximately 185 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Simple Western



Detection of Human Phospho-PDGF Rβ (Y751) by Simple Western™. Simple Western lane view shows lysates of CCD-1070Sk human foreskin fibroblast cell line untreated (-) or treated (+) with 100 ng/mL Recombinant Human PDGF-AA (Catalog # 221-AA) for 10 minutes, loaded at 0.2 mg/mL. A specific band was detected for Phospho-PDGF Rβ (Y751) at approximately 274 kDa (as indicated) using 5 µg/mL of Rabbit Anti-Human Phospho-PDGF Rβ (Y751) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1767). This experiment was conducted under reducing conditions and using the 66-440 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PDGF is a major serum mitogen that can exist as a homo or hetero-dimeric protein consisting of disulfide-linked PDGF-A and PDGF-B chains. The PDGF-AA, PDGF-BB and PDGF-AB isoforms have been shown to bind to two distinct cell surface PDGF receptors with different affinities. Where as PDGF Rα binds all three PDGF isoforms with high affinity, PDGF Rβ binds PDGF-BB only with high-affinity. Both PDGF Rα and PDGF Rβ are members of the class III subfamily of receptor tyrosine kinases (RTK) that also includes the receptors for M-CSF, SCF and Flt3 ligand. All class III RTKs are characterized by the presence of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGF binding induces receptor homo-and hetero-dimerization and signal transduction. The expression of the α and β receptors is independently regulated in various cell types. Recombinant soluble PDGF Rβ binds PDGF with high affinity and is potent PDGF antagonist.

References:

1. Heldin, C.H. and L. Claesson-Welsh (1994) in *Guidebook to Cytokines and Their Receptors*, Nicola, N.A. ed. Oxford University Press, New York, p. 202.

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