Datasheet for ABIN1177135

anti-PDGFRB antibody (pTyr771) (PE)

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Overview

Quantity:	50 tests
Target:	PDGFRB
Binding Specificity:	pTyr771
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PDGFRB antibody is conjugated to PE
Application:	Intracellular Staining (ICS)

Product Details

Brand:	BD Phosflow™
Immunogen:	Phosphorylated Human PDGFRbeta Peptide
Clone:	J23-1044
Isotype:	IgG1 kappa
Purification:	Purified from tissue culture supernatant or ascites by affinity chromatography

Target Details

Target:	PDGFRB
Abstract:	PDGFRB Products
Background:	Platelet-derived growth factor (PDGF) is a potent mitogen for cells of mesenchymal origin and

Target Details

	exerts its effects by binding to the PDGF receptor (PDGFR), a transmembrane protein tyrosine kinase. PDGFR is composed of PDGFRalpha (CD140a) and/or PDGFRbeta (CD140b) polypeptides. Both PDGF and PDGFR consist of subunits that form homo- or heterodimers with varying specificities: PDGF-AA binds only to alphaalpha PDGFR, PDGF-AB binds to both alphaalpha and alphabeta PDGFR, and PDGF-BB binds to all three PDGFRs. Ligand binding induces dimerization and activation of the receptor. Upon activation, CD140b is phosphorylated at multiple tyrosine sites and, in turn, an intracellular phosphorylation cascade is initiated. PDGFR localizes primarily to membrane invaginations termed caveolae, compartments that are enriched in several of its downstream effectors, including phosphatidylinositol 3'-kinase, Src, and phospholipase C-gamma. The J23-1044 monoclonal antibody recognizes the phosphorylated tyrosine 771 (pY771) in the kinase insert domain of CD140b. pY771 interacts with GTPase-activating protein, a negative regulator of Ras, and weakly with Shc, which indirectly promotes the activation of Ras.
Pathways:	Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Inositol Metabolic Process, Glycosaminoglycan Metabolic Process, Smooth Muscle Cell Migration, Platelet-derived growth Factor Receptor Signaling

Application Details

Sample Volume:	20 µL
Restrictions:	For Research Use only

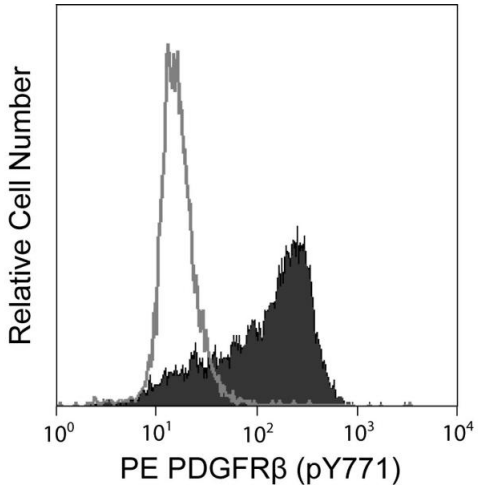
Handling

Format:	Liquid
Buffer:	Aqueous buffered solution containing BSA and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed. Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Ekman, Kallin, Engström, Heldin, Rönnstrand: "SHP-2 is involved in heterodimer specific loss of phosphorylation of Tyr771 in the PDGF beta-receptor." in: **Oncogene**, Vol. 21, Issue 12, pp. 1870-5, (2002) (PubMed).

Images



Flow Cytometry

Image 1.