



# Rabbit Anti-PDGFRB monoclonal antibody, clone TZ21-19 (DCABH-210)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Target</b>	PDGF Receptor beta
<b>Immunogen</b>	Recombinant protein
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Clone</b>	TZ21-19
<b>Purification</b>	Protein A purified.
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, IHC, IP
<b>Molecular Weight</b>	170 kDa
<b>Cellular Localization</b>	Cell membrane, Cytoplasmic vesicle, Lysosome lumen.
<b>Positive Control</b>	NIH/3T3, human lung tissue, human spleen tissue, mouse lung tissue, mouse brain tissue.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	1×TBS (pH7.4), 1% BSA, 40% Glycerol.
<b>Preservative</b>	0.05% Sodium Azide

<b>Storage</b>	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Warnings</b>	For research use only

## BACKGROUND

<b>Introduction</b>	<p>Platelet-derived growth factor (PDGF) is a mitogen for mesenchyme- and glia-derived cells. PDGF consists of two chains, A and B, which dimerize to form functionally distinct isoforms, PDGF-AA, PDGF-AB and PDGF-BB. These three isoforms bind with different affinities to two receptor types, PDGFR-<math>\alpha</math> and <math>\beta</math>, which are endowed with protein tyrosine kinase domains. PDGFR-<math>\alpha</math> can bind to both A and B subunits of PDGF, while PDGFR-<math>\beta</math> can only bind the B subunit. Ligand binding promotes either homo- or heterodimerization of the PDGF receptors in a specific manner. PDGF-AA induces the dimerization of two <math>\alpha</math> receptors, PDGF-AB induces dimerization of <math>\alpha\alpha</math> and <math>\alpha\beta</math> and PDGF-BB induces the formation of three types of dimers, <math>\alpha\alpha</math>, <math>\alpha\beta</math> and <math>\beta\beta</math>. Translocation of the PDGFR-<math>\beta</math> gene with the Tel gene is linked to chronic myelomonocytic leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors.</p>
<b>Keywords</b>	<p>Beta platelet derived growth factor receptor;Beta-type platelet-derived growth factor receptor;CD 140B;CD140 antigen-like family member B;CD140b;CD140b antigen;IBGC4;IMF1;JTK12;OTTHUMP00000160528;PDGF R beta;PDGF-R-beta;PDGFR 1;PDGFR;PDGFR beta;PDGFR1;PDGFRB;PGFRB_HUMAN;Platelet derived growth factor receptor 1;Platelet derived growth factor receptor beta;Platelet derived growth factor receptor beta polypeptide antibody</p>