



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

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

Storage

Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

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- α and - β , which are endowed with protein tyrosine kinase domains. PDGFR- α can bind to both A and B subunits of PDGF, while PDGFR- β 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 α receptors, PDGF-AB induces dimerization of $\alpha\alpha$ and $\alpha\beta$ and PDGF-BB induces the formation of three types of dimers, $\alpha\alpha$, $\alpha\beta$ and $\beta\beta$. Translocation of the PDGFR- β gene with the Tel gene is linked to chronic myelomonocytic leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors.

Keywords

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
