



Rabbit Anti-PDGFRα monoclonal antibody, clone KG215-7 (DCABH-2917)

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

PRODUCT INFORMATION

Target	PDGFR α
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	KG215-7
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC, IHC, FC
Molecular Weight	123 kDa
Cellular Localization	Cell membrane.
Positive Control	NIH/3T3, A549, mouse colon tissue, mouse uterus 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

Alpha-type platelet-derived growth factor receptor;CD140 antigen-like family member A;CD140a;CD140a antigen;MGC74795;PDGF alpha chain;PDGF-R-alpha;PDGFR 2;PDGFR alpha;PDGFR2;PDGFRA;PDGFRA/BCR fusion;PGFRA_HUMAN;Platelet derived growth factor receptor 2;Platelet derived growth factor receptor alpha;Platelet derived growth factor receptor alpha polypeptide;Platelet derived growth factor receptor;Rearranged in hypereosinophilia platelet derived growth factor receptor alpha fusion protein;RHEPDGFRA antibody
