

Product datasheet

Anti-PDGF Receptor beta antibody [APB5] ab91066

★☆☆☆☆ 3 Abreviews 7 References 1 Image

Overview

Product name	Anti-PDGF Receptor beta antibody [APB5]
Description	Rat monoclonal [APB5] to PDGF Receptor beta
Host species	Rat
Tested applications	Suitable for: WB, IHC-Fr, Flow Cyt
Species reactivity	Reacts with: Mouse Predicted to work with: Human
Immunogen	Recombinant extracellular domain of murine PDGFRB fused to Human IgG1 purified from transfected COS1 cells.
Positive control	NIH3T3 cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: Phosphate buffer, 150mM Sodium chloride, pH 7.2
Purity	Protein A purified
Purification notes	ab91066 is affinity purified.
Clonality	Monoclonal
Clone number	APB5
Isotype	IgG2a
Light chain type	kappa

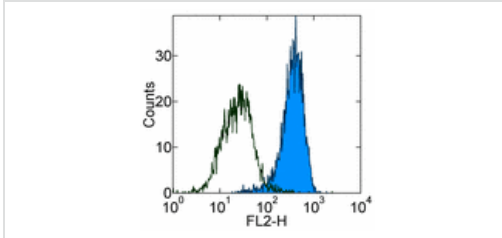
Applications

Our [Abpromise guarantee](#) covers the use of **ab91066** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		
IHC-Fr	★☆☆☆☆	
Flow Cyt		
Application notes	<p>Flow Cyt: Use 1 µg for 10⁶ cells in 100 µl total staining volume.</p> <p>IHC-Fr: Use at an assay dependent dilution.</p> <p>WB: Use at an assay dependent dilution. Predicted molecular weight: 124 kDa.</p> <p>Not yet tested in other applications.</p> <p>Optimal dilutions/concentrations should be determined by the end user.</p>	
Target		
Function	<p>Receptor that binds specifically to PDGFB and PDGFD and has a tyrosine-protein kinase activity. Phosphorylates Tyr residues at the C-terminus of PTPN11 creating a binding site for the SH2 domain of GRB2.</p>	
Involvement in disease	<p>Note=A chromosomal aberration involving PDGFRB is found in a form of chronic myelomonocytic leukemia (CMML). Translocation t(5;12)(q33;p13) with EVT6/TEL. It is characterized by abnormal clonal myeloid proliferation and by progression to acute myelogenous leukemia (AML).</p> <p>Note=A chromosomal aberration involving PDGFRB may be a cause of acute myelogenous leukemia. Translocation t(5;14)(q33;q32) with TRIP11. The fusion protein may be involved in clonal evolution of leukemia and eosinophilia.</p> <p>Note=A chromosomal aberration involving PDGFRB may be a cause of juvenile myelomonocytic leukemia. Translocation t(5;17)(q33;p11.2) with SPECC1.</p> <p>Defects in PDGFRB are a cause of myeloproliferative disorder chronic with eosinophilia (MPE) [MIM:131440]. A hematologic disorder characterized by malignant eosinophils proliferation.</p> <p>Note=A chromosomal aberration involving PDGFRB is found in many instances of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;12) with ETV6 on chromosome 12 creating an PDGFRB-ETV6 fusion protein.</p> <p>Note=A chromosomal aberration involving PDGFRB may be the cause of a myeloproliferative disorder (MBD) associated with eosinophilia. Translocation t(1;5)(q23;q33) that forms a PDE4DIP-PDGFRB fusion protein.</p>	
Sequence similarities	<p>Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.</p> <p>Contains 5 Ig-like C2-type (immunoglobulin-like) domains.</p> <p>Contains 1 protein kinase domain.</p>	
Post-translational modifications	<p>Autophosphorylated. Dephosphorylated by PTPRJ at Tyr-751, Tyr-857, Tyr-1009 and Tyr-1021.</p>	
Cellular localization	<p>Membrane.</p>	

Images



Flow Cytometry - Anti-PDGF Receptor beta antibody
[APB5] (ab91066)

Staining of NIH3T3 cells with 0.5 μg control antibody (open histogram) or 0.5 μg ab91066 (colored histogram), followed by biotin-conjugated anti-Rat IgG and Streptavidin PE. Total viable cells were used for analysis.

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