abcam

Product datasheet

Anti-PDGFR beta antibody [APB5] - Low endotoxin, Azide free ab171231

1 Image

Overview

Product name	Anti-PDGFR beta antibody [APB5] - Low endotoxin, Azide free
Description	Rat monoclonal [APB5] to PDGFR beta - Low endotoxin, Azide free
Host species	Rat
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse
Immunogen	The details of the immunogen for this antibody are not available.
Positive control	NIH 3T3 cells
General notes	Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by the LAL assay. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	APB5
Isotype	IgG2a

Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab171231 in the following tested applications.

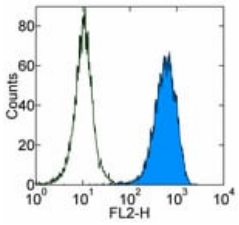
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1µg for 10^{5-8} cells. Final test volume = 100 µL **ab18450** - Rat monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

Function	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.
Involvement in disease	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). 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. Note=A chromosomal aberration involving PDGFRB may be a cause of juvenile myelomonocytic leukemia. Translocation t(5;17)(q33;p11.2) with SPECC1. Defects in PDGFRB are a cause of myeloproliferative disorder chronic with eosinophilia (MPE) [MIM:131440]. A hematologic disorder characterized by malignant eosinophils proliferation. 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. 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.
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 5 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated. Dephosphorylated by PTPRJ at Tyr-751, Tyr-857, Tyr-1009 and Tyr-1021.
Cellular localization	Membrane.

Images



Flow Cytometry - Anti-PDGFR beta antibody [APB5] - Low endotoxin, Azide free (ab171231)

Flow cytometry analysis of NIH 3T3 cells using ab171231 (blue histogram) at 0.5 µg or purified Rat IgG2a kappa Isotype Control (open histogram) at 0.5 µg; followed by an anti-Rat IgG Biotin and Streptavidin PE. Total viable cells were used for analysis.

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