abcam

Product datasheet

Anti-PDGFR beta antibody [42G12] ab69506

KO 評価済

4 Abreviews 31 References 画像数 5

製品の概要

製品名	Anti-PDGFR beta antibody [42G12]
製品の詳細	Mouse monoclonal [42G12] to PDGFR beta
由来種	Mouse
アプリケーション	**適用あり:** Indirect ELISA, IHC-P, WB, Flow Cyt
種交差性	**交差種:** Mouse, Human
免疫原	Recombinant full length protein corresponding to Human PDGFR beta.
ポジティブ・コントロール	IHC-P: Human spleen and placenta tissues; Mouse heart muscle lysate. WB: Wild-type SH-SY5Y cell lysate. Flow Cyt: NIH 3T3 cells. ELISA: Human PDGFR beta protein
特記事項	This product was changed from ascites to tissue culture supernatant on 22nd May 2019. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. 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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
精製度	Tissue culture supernatant
特記事項（精製）	Purified from TCS.
ポリ/モノ	モノクローナル
クローン名	42G12

アイソタイプ IgG1

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab69506の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Indirect ELISA		Use at an assay dependent concentration.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Detects a band of approximately 124 kDa (predicted molecular weight: 124 kDa).
Flow Cyt		Use at an assay dependent concentration. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

ターゲット情報

機能 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.

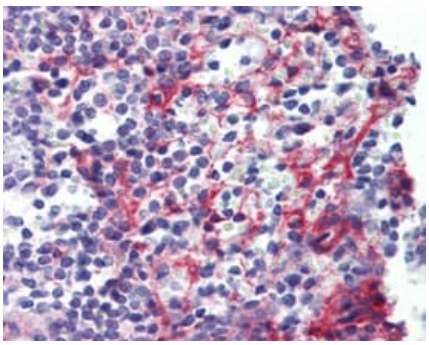
関連疾患 Note=A chromosomal aberration involving PDGFRB is found in a form of chronic myelomonocytic leukemia (CMML). Translocation t(5;12)(q33;p13) with EVT6/TEL. It is characterized by abnormal clonal myeloid proliferation and by progression to acute myelogenous leukemia (AML).
Note=A chromosomal aberration 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.

配列類似性 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.

翻訳後修飾 Autophosphorylated. Dephosphorylated by PTPRJ at Tyr-751, Tyr-857, Tyr-1009 and Tyr-1021.

細胞内局在 Membrane.

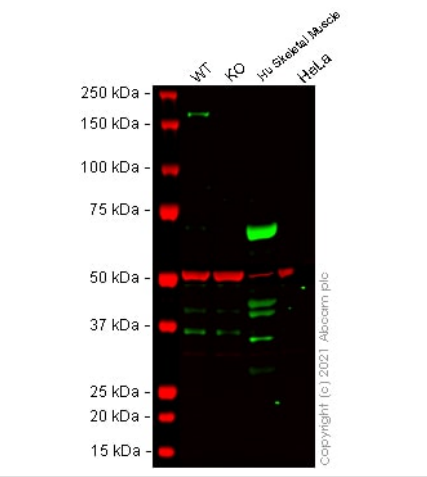
画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR beta antibody [42G12] (ab69506)

Immunohistochemistry analysis of human spleen tissue labeling PDGFR beta [42G12] with ab69506 at 20µg/ml.

This image was generated using the ascites version of the product.



Western blot - Anti-PDGFR beta antibody [42G12] (ab69506)

All lanes : Anti-PDGFR beta antibody [42G12] (ab69506) at 1/1000 dilution

Lane 1 : Wild-type SH-SY5Y cell lysate
Lane 2 : PDGFRB knockout SH-SY5Y cell lysate
Lane 3 : Human Skeletal Muscle tissue lysate
Lane 4 : HeLa cell lysate

Lysates/proteins at 30 µg per lane.

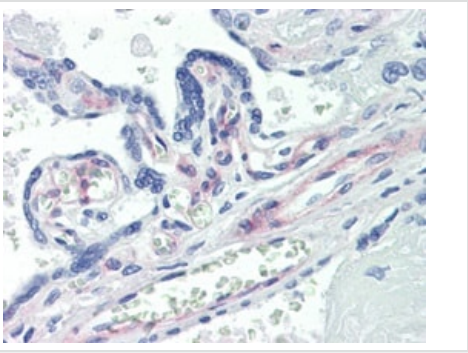
Performed under reducing conditions.

Predicted band size: 124 kDa
Observed band size: 170 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab69506 observed at 170 kDa. Red - loading control **ab52866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) observed at 55 kDa.

ab69506 was shown to react with PDGFR beta in wild-type SH-SY5Y cells in Western blot with loss of signal observed in PDGFRB knockout cell line **ab273749** (knockout cell lysate **ab275523**). Wild-type SH-SY5Y and PDGFRB knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with ab69506 and **ab52866** (Rabbit

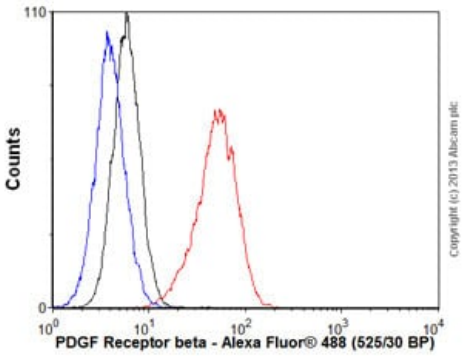
anti-alpha Tubulin antibody [EP1332Y]) overnight at 4 °C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR beta antibody [42G12] (ab69506)

Immunohistochemistry analysis of human placenta tissue labeling PDGFR beta [42G12] with ab69506 at at 20µg/ml.

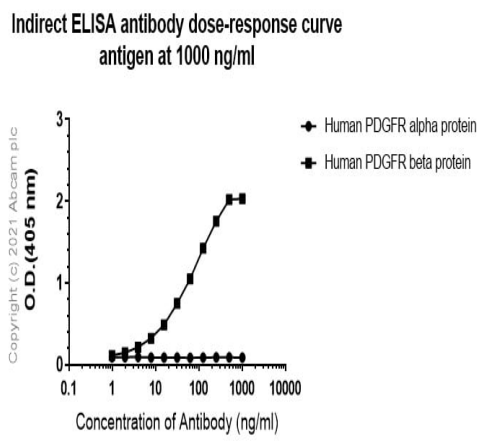
This image was generated using the ascites version of the product.



Flow Cytometry - Anti-PDGFR beta antibody [42G12] (ab69506)

Overlay histogram showing NIH 3T3 cells stained with ab69506 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab69506, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10^6 cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.

This image was generated using the ascites version of the product.



Indirect ELISA - Anti-PDGFR beta antibody [42G12] (ab69506)

ELISA using ab69506 at varying antibody concentrations (1000-0ng/ml). The antigens used were Human PDGFR alpha protein, Human PDGFR beta protein at a concentration of 1000 ng/ml. Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) was used as the secondary antibody with a dilution of 1:1000. The substrate solution used was p-nitrophenyl phosphate(PNPP)

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