

Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal ab32570

KO 評価済 リコンビナント RabMAb

★★★★☆ 31 Abreviews 290 References 画像数 16

製品の概要

製品名	Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal
製品の詳細	Rabbit monoclonal [Y92] to PDGFR alpha + PDGFR beta - C-terminal
由来種	Rabbit
特異性	Expression levels of the target protein vary with sample type and some optimisation may be required.
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP, ELISA
種交差性	交差種: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: N-GST tagged Human PDGF Receptor beta (aa557 to 1106) recombinant protein, N-GST tagged Human PDGF Receptor alpha (aa550 to 1089) recombinant protein, NIH/3T3 cell lysate. SH-SY5Y cell lysate. Rat brain and heart tissue lysate. Mouse brain tissue lysate. Human fetal brain tissue lysate. Human skeletal muscle tissue lysate. ICC/IF: NIH/3T3 cells. IHC-P: Human prostatic carcinoma, lung cancer, breast and spleen tissue. Flow Cyt (intra): NIH/3T3 cells. IP: NIH/3T3 cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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	pH: 7.20 Preservative: 0.01% Sodium azide

	Constituents: PBS, 40% Glycerol, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	Y92
アイソタイプ	IgG

アプリケーション

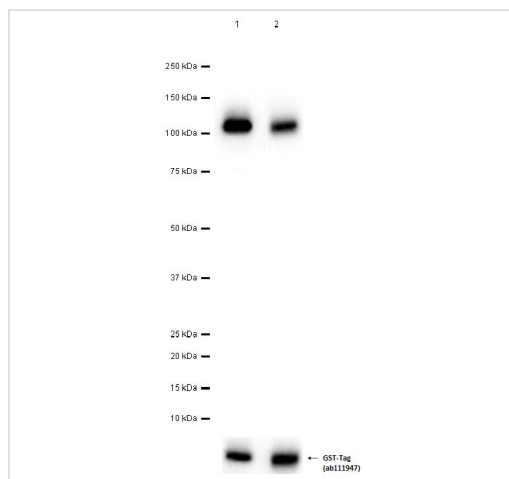
The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab32570の使用に適用されます
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/20.
WB	★★★★★ (4)	1/5000 - 1/20000. Predicted molecular weight: 124 kDa. For samples expressing low levels of PDGFR beta, the amount of lysate loaded may need to be increased to allow detection.
IHC-P	★★★★★ (8)	1/50 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <u>IHC antigen retrieval protocols.</u> Optimisation of the IHC protocol may be required depending on the sample used.
ICC/IF	★★★★★ (8)	1/100.
IP		1/20.
ELISA		Use at an assay dependent concentration. Primary antibody concentration range: 1000 - 0 ng/mL

ターゲット情報

細胞内局在 PDGFR alpha: Membrane. PDGFR beta: Membrane.

画像



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

All lanes : Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570) at 1/1000 dilution

Lane 1 : Recombinant human PDGFR beta protein ([ab60833](#))

Lane 2 : Recombinant human PDGFR alpha protein ([ab84797](#))

Lysates/proteins at 0.1 µg per lane.

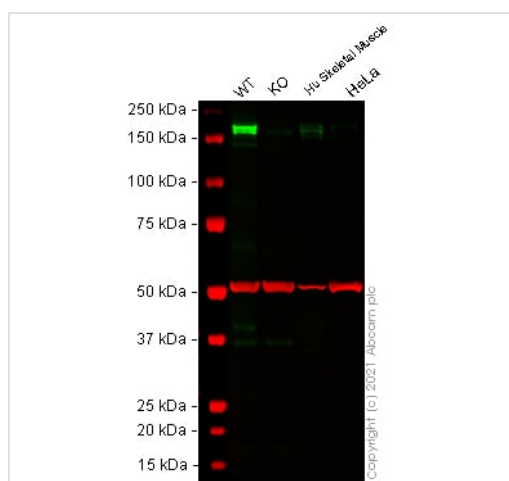
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 124 kDa

Blocking/Diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 3 seconds



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

All lanes : Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570) at 1/5000 dilution

Lane 1 : Wild-type SH-SY5Y cell lysate

Lane 2 : PDGFR beta knockout SH-SY5Y cell lysate

Lane 3 : Human Skeletal Muscle tissue lysate

Lane 4 : HeLa cell lysate

Lysates/proteins at 30 µg per lane.

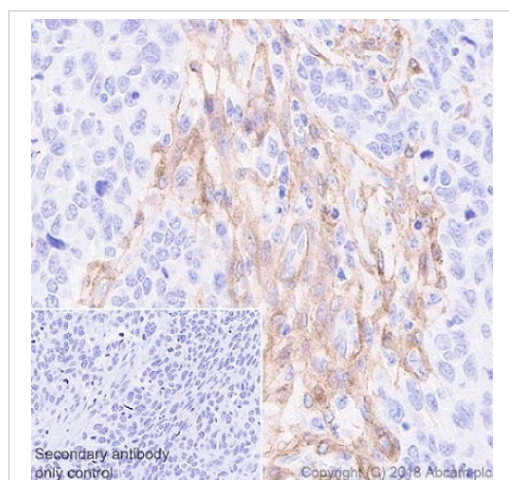
Performed under reducing conditions.

Predicted band size: 124 kDa

Observed band size: 170 kDa

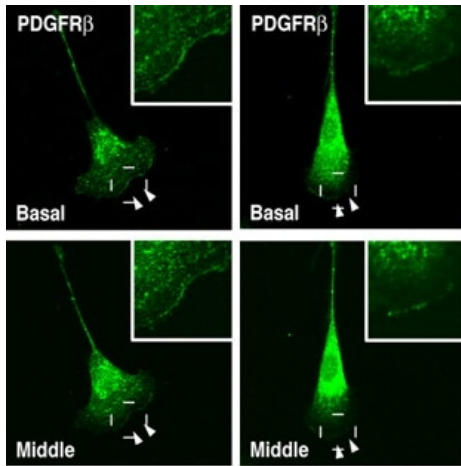
Lanes 1 - 4: Merged signal (red and green). Green - ab32570 observed at 170 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) observed at 55 kDa.

ab32570 was shown to react with PDGFRB in wild-type SH-SY5Y cells in Western blot with weakened 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 fluorescent western blot (TBS-based) blocking solution before incubation with ab32570 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4 °C at a 1 in 5000 dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 h at room temperature before imaging. The weak signal observed in PDGFRB knockout cell line should be PDGFRA.



ab32570 staining PDGFR beta in human lung cancer tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Shows positive staining on stromal cells. Heat mediated antigen retrieval was performed using **ab93684** (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/500). An HRP-conjugated Goat anti-rabbit IgG (ready to use) was used as the secondary antibody. Counter stained with Hematoxylin.

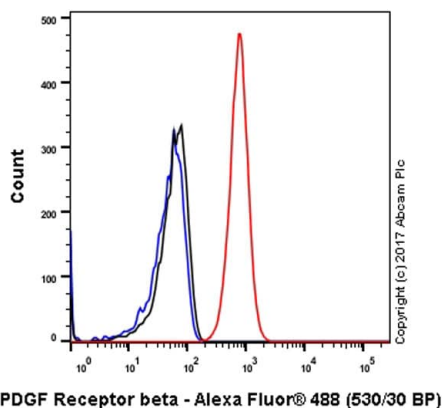
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)



Immunocytochemistry/ Immunofluorescence - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Image from Miyata Met al., J Biol Chem. 2009 Sep 4;284(36):24595-609. Epub 2009 Jul 9. Fig 1.; doi: 10.1074/jbc.M109.016436; September 4, 2009, The Journal of Biological Chemistry, 284, 24595-24609.

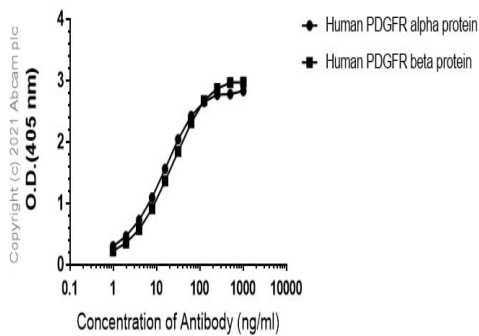
Immunofluorescence analysis of NIH/3T3 (Mouse embryo fibroblast cell line) cells stimulated with PDGF, staining PDGFR beta with unpurified ab32570.



Flow Cytometry (Intracellular) - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Intracellular Flow Cytometry analysis of NIH/3T3 (Mouse embryo fibroblast cell line) cells labeling PDGFR beta (red) with ab32570 at a 1/20 dilution. Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. A goat anti-rabbit IgG (Alexa Fluor[®] 488) ([ab150077](#)) was used as the secondary antibody at a 1/2000 dilution. Black - Rabbit monoclonal IgG ([ab172730](#)). Blue (unlabeled control) - Cells without incubation with primary and secondary antibodies.

Indirect ELISA antibody dose-response curve
antigen at 1000 ng/ml

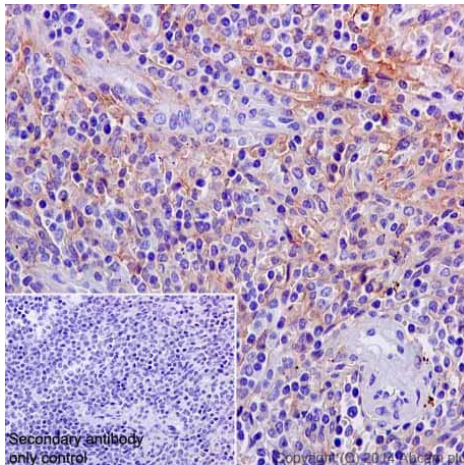


ELISA - Anti-PDGFR alpha + PDGFR beta antibody
[Y92] - C-terminal (ab32570)

ELISA showing primary antibody ab32570 binding to the antigen Human PDGFR alpha protein and Human PDGFR beta protein.

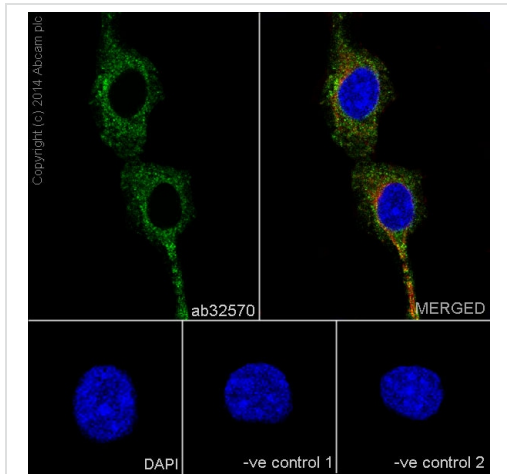
Primary antibody concentration ranges from 0 - 1000 ng/mL.

Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) was used as a secondary antibody at 1/2500 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

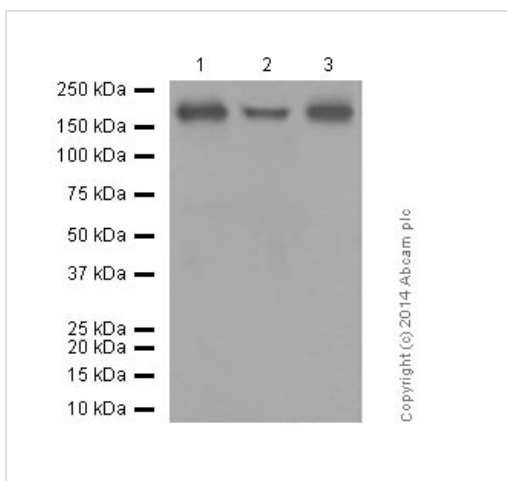
Immunohistochemical staining of paraffin embedded human spleen with purified ab32570 at a working dilution of 1/50. The secondary antibody used is **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L), at a dilution of 1/500. The sample is counter-stained with hematoxylin. Antigen retrieval was performed using **Tris-EDTA buffer**, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.



Immunocytochemistry/ Immunofluorescence - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Immunofluorescence staining of NIH/3T3 (Mouse embryo fibroblast cell line) cells with purified ab32570 at a working dilution of 1 in 100, counter-stained with DAPI. Tubulin was stained with mouse anti-tubulin at a dilution of 1/1000 (**ab7291**) and Alexa Fluor® 594 goat anti-mouse at a dilution of 1/500 (**ab150120**). The secondary antibody was **ab150077** Alexa Fluor® 488 goat anti rabbit, used at a dilution of 1 in 500. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100.

The negative controls are shown in the bottom middle and right hand panels - for the first negative control, purified ab32570 was used at a dilution of 1/200 followed by an Alexa Fluor® 555 goat anti-mouse antibody at a dilution of 1/500 and for the second negative control mouse primary antibody (**ab7291**) and anti-rabbit secondary antibody (**ab15007**) were used.



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

All lanes : Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570) at 1/10000 dilution (purified)

Lane 1 : Rat brain tissue lysate

Lane 2 : Rat heart tissue lysate

Lane 3 : Mouse brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

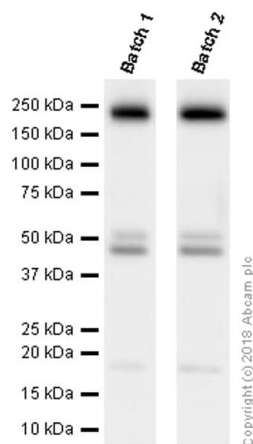
All lanes : HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 124 kDa

Observed band size: 175 kDa

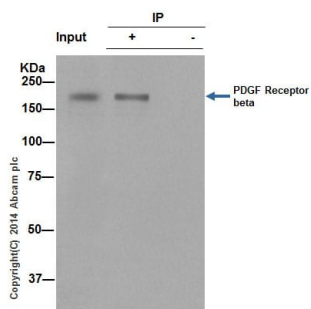
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Different batches of ab32570 were tested on Rat brain lysate at 1.0 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 175 kDa.



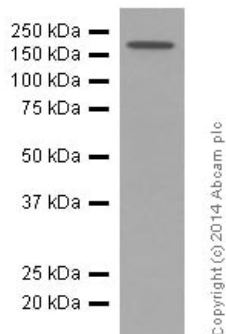
Immunoprecipitation - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

ab32570 (purified) at 1/20 immunoprecipitating PDGFR beta in NIH/3T3 (Mouse embryo fibroblast cell line) (Lane 1 and 2). Lane 3 - PBS.

For western blotting a HRP-conjugated anti-rabbit IgG specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570) at 1/10000 dilution (purified) + SH-SY5Y (Human neuroblastoma cell line from bone marrow) cell lysate at 10 µg

Secondary

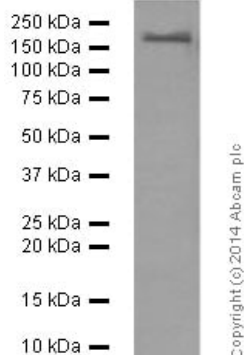
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 124 kDa

Observed band size: 175 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570) at 1/5000 dilution (purified) + Human fetal brain tissue lysate at 10 µg

Secondary

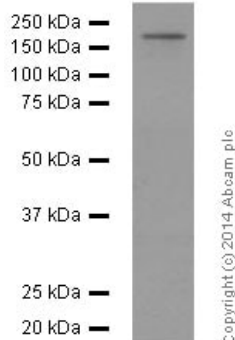
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 124 kDa

Observed band size: 175 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Western blot - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570) at 1/50000 dilution (purified) + NIH/3T3 (Mouse embryo fibroblast cell line) cell lysate at 10 µg

Secondary

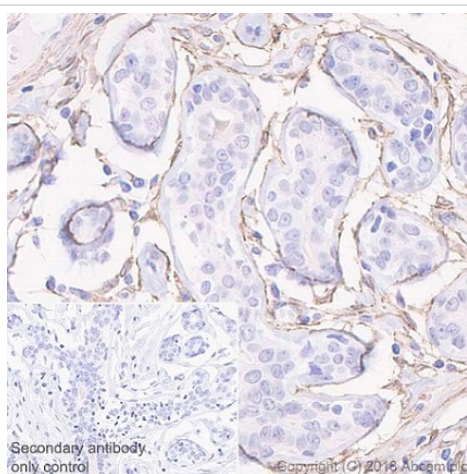
HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 124 kDa

Observed band size: 175 kDa

Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha + PDGFR beta antibody [Y92] - C-terminal (ab32570)

ab32570 staining PDGFR beta in human breast tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Shows positive staining on stromal cells. Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody (1/500). An HRP-conjugated Goat anti-rabbit IgG (ready to use) was used as the secondary antibody. Counter stained with Hematoxylin.

Why choose a recombinant antibody?



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Animal-free production

Anti-PDGFR alpha + PDGFR beta antibody [Y92] -
C-terminal (ab32570)

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