

Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free ab234965

敲除验证 重组 RabMAb

★★★★☆ [1 Abreviews](#) [2 References](#) [16 图像](#)

概述

产品名称	Anti-PDGFR alpha抗体[EPR22059-270] - BSA and Azide free
描述	兔单克隆抗体[EPR22059-270] to PDGFR alpha - BSA and Azide free
宿主	Rabbit
特异性	PDGFR alpha is membrane protein, so enrichment of membrane could help increasing the detection level of PDGFR alpha.
经测试应用	适用于: IHC-Fr, Indirect ELISA, WB, IHC-P, ICC/IF, Flow Cyt, IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: SH-SY5Y, A-204, MG-63, C6, and NIH/3T3 whole cell lysates. IHC-P: Mouse E14.5 lung, E14.5 intervertebral disc and uterus tissues; Rat E14.5 intervertebral disc tissue and Human endometrium tissue. ICC/IF: SH-SY5Y and A-204 cells. Flow Cyt: NIH/3T3 and A-204 cells. IP: A-204 whole cell lysate
常规说明	<p>ab234965 is the carrier-free version of ab203491.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR22059-270
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab234965于以下的经测试应用**

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.
Indirect ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 150, 180 kDa (predicted molecular weight: 122 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

靶标

功能	Receptor that binds both PDGFA and PDGFB and has a tyrosine-protein kinase activity.
组织特异性	Expressed in primary and metastatic colon tumors and in normal colon tissue. Tumors may

express a different isoform to that found in normal tissue.

疾病相关

Note=A chromosomal aberration involving PDGFRA is found in some cases of hypereosinophilic syndrome. Interstitial chromosomal deletion del(4)(q12q12) causes the fusion of FIP1L1 and PDGFRA (FIP1L1-PDGFRA).

序列相似性

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.

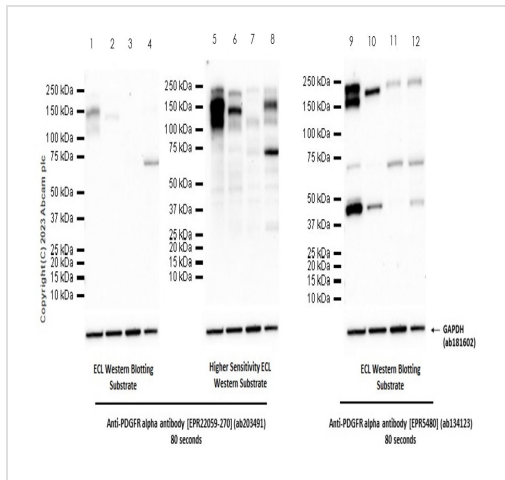
Contains 5 Ig-like C2-type (immunoglobulin-like) domains.

Contains 1 protein kinase domain.

细胞定位

Membrane.

图片



Western blot - Anti-PDGFR alpha antibody
[EPR22059-270] - BSA and Azide free (ab234965)

Lanes 1-8 : Anti-PDGFR alpha antibody [EPR22059-270]

(**ab203491**) at 1/1000 dilution

Lanes 9-12 : Anti-PDGFR alpha antibody [EPR5480] (**ab134123**)

at 1/1000 dilution

Lanes 1 & 5 & 9 : SH-SY5Y

Lanes 2 & 6 & 10 : Human brain tissue lysate at 20 μ g

Lanes 3 & 7 & 11 : Human heart tissue lysate at 20 μ g

Lanes 4 & 8 & 12 : Human lung tissue lysate at 20 μ g

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 122 kDa

Observed band size: 150 kDa

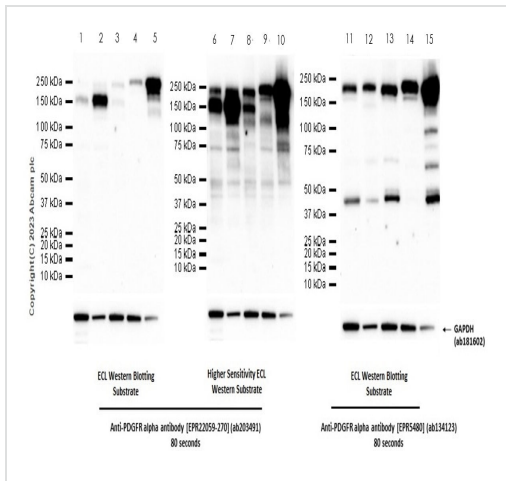
Exposure time: 80 seconds

This data was developed using the same antibody clone in a different buffer formulation (**ab203491**).

Blocking/Dilution buffer: 5% NFDm/TBST.

We recommend using higher sensitivity ECL to improve results.

ab134123 can be a good alternative when testing samples with low level of PDGFR alpha which detects stronger signal than **ab203491** in western blot.



Western blot - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Lanes 1-10 : Anti-PDGFR alpha antibody [EPR22059-270]

(**ab203491**) at 1/1000 dilution

Lanes 11-15 : Anti-PDGFR alpha antibody [EPR5480]

(**ab134123**) at 1/1000 dilution

Lanes 1 & 6 & 11 : Rat heart tissue lysate

Lanes 2 & 7 & 12 : Rat lung tissue lysate

Lanes 3 & 8 & 13 : Mouse brain tissue lysate

Lanes 4 & 9 & 14 : Mouse heart tissue lysate

Lanes 5 & 10 & 15 : Mouse lung tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 122 kDa

Observed band size: 150 kDa

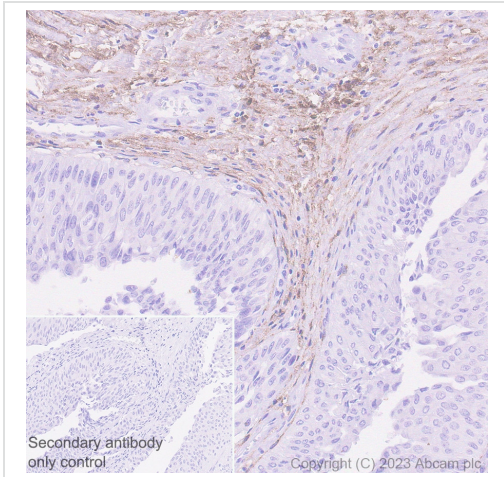
Exposure time: 80 seconds

This data was developed using the same antibody clone in a different buffer formulation (**ab203491**).

Blocking/Dilution buffer: 5% NFDM/TBST.

We recommend using higher sensitivity ECL to improve results.

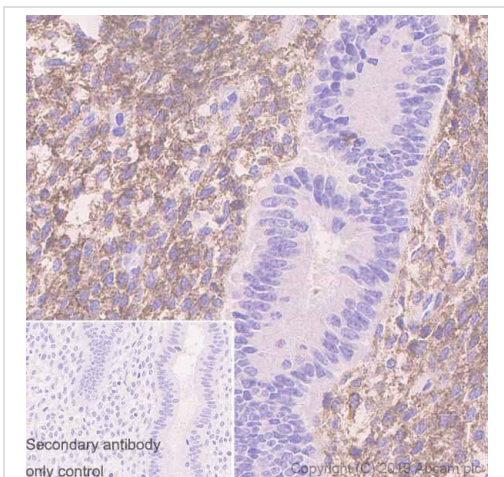
ab134123 can be a good alternative when testing samples with low level of PDGFR alpha which detects stronger signal than **ab203491** in western blot.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).

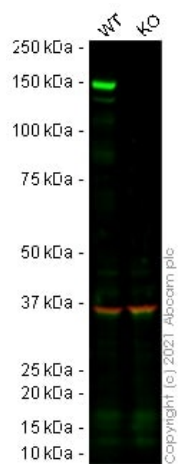
Immunohistochemical analysis of paraffin-embedded human human bladder carcinoma labeling PDGFR alpha with **ab203491** at 0.26 µg/mL followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in human bladder carcinoma was observed. The section was incubated with **ab203491** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Immunohistochemical analysis of paraffin-embedded human endometrium tissue labeling PDGFR alpha with **ab203491** at 0.26 µg/mL followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining in human endometrium was observed. The section was incubated with **ab203491** for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins was used.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).



Western blot - Anti-PDGFR alpha antibody
[EPR22059-270] - BSA and Azide free (ab234965)

All lanes : Anti-PDGFR alpha antibody [EPR22059-270]
([ab203491](#)) at 1/1000 dilution

Lane 1 : Wild-type SH-SY5Y cell lysate

Lane 2 : PDGFRA knockout SH-SY5Y cell lysate

Lysates/proteins at 40 µg per lane.

Performed under reducing conditions.

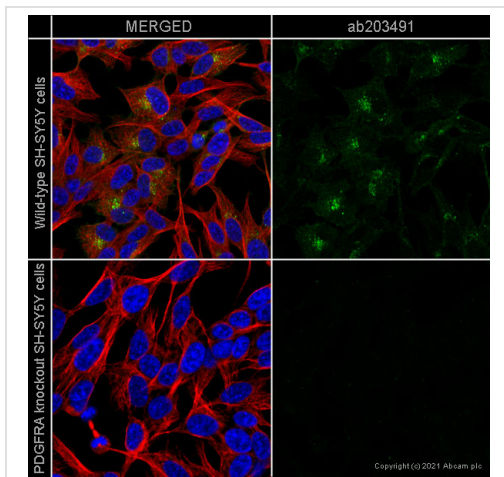
Predicted band size: 122 kDa

Observed band size: 150 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab203491](#)).

Lanes 1 - 2: Merged signal (red and green). Green - [ab203491](#) observed at 150 kDa. Red - loading control [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) observed at 37 kDa.

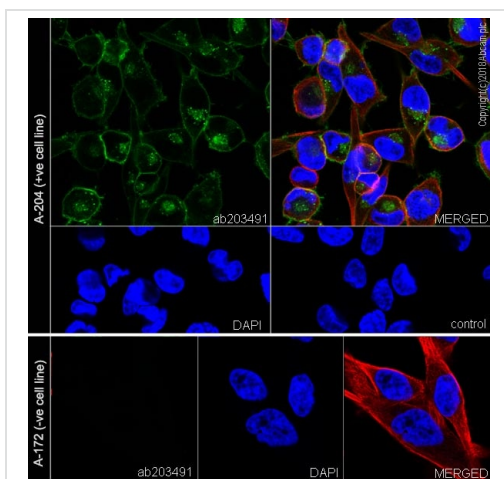
[ab203491](#) was shown to react with PDGFR alpha in wild-type SH-SY5Y cells in Western blot with loss of signal observed in PDGFRA knockout sample. Wild-type SH-SY5Y and PDGFRA knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3 % milk in TBS-T (0.1 % Tween®) before incubation with [ab203491](#) and [ab8245](#) (Mouse anti-GAPDH antibody [6C5]) overnight at 4 °C at a 1 in 1000 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.



Immunocytochemistry/ Immunofluorescence - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

This data was developed using the same antibody clone in a different buffer formulation (**ab203491**) (**ab275335**), **ab203491** staining PDGFR alpha in wild-type SH-SY5Y cells (top panel) and PDGFR alpha knockout SH-SY5Y cells (bottom panel). The cells were fixed with 100% methanol (5 min) then permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated with **ab203491** at 1 µg/ml concentration and **ab7291** (Mouse monoclonal to alpha Tubulin) at 1/1000 dilution overnight at 4°C followed by a further incubation at room temperature for 1h with a goat secondary antibody to rabbit IgG (Alexa Fluor® 488) (**ab150081**) at 2 µg/ml (shown in green) and a goat secondary antibody to mouse IgG (Alexa Fluor® 594) (**ab150120**) at 2 µg/ml (shown in red). Nuclear DNA was labeled in blue with DAPI.

Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).



Immunocytochemistry/ Immunofluorescence - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

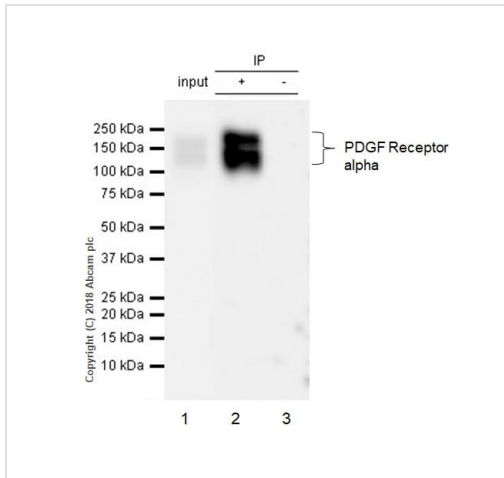
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized A-204 (human muscle rhabdomyosarcoma cell line) cells and A-172 (human brain glioblastoma cell line) labeling PDGFR alpha with **ab203491** at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing membranous and cytoplasmic staining in A-204 cell line.

Negative control: A-172 (PMID:8425771).

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203491](#)).



Immunoprecipitation - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

PDGFR alpha was immunoprecipitated from 0.35 mg of A-204 (human muscle rhabdomyosarcoma cell line) whole cell lysate with [ab203491](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab203491](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/1000 dilution.

Lane 1: A-204 whole cell lysate 10 µg (Input).

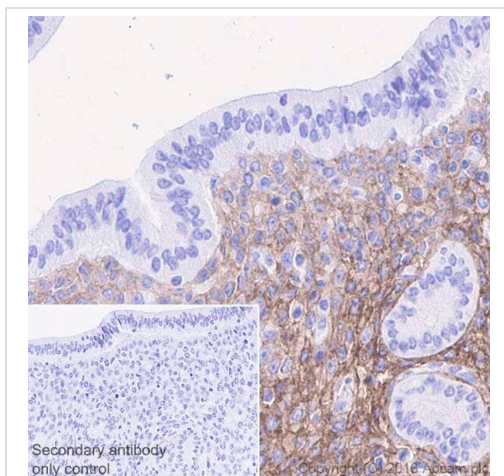
Lane 2: [ab203491](#) IP in A-204 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab203491](#) in A-204 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 50 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203491](#)).



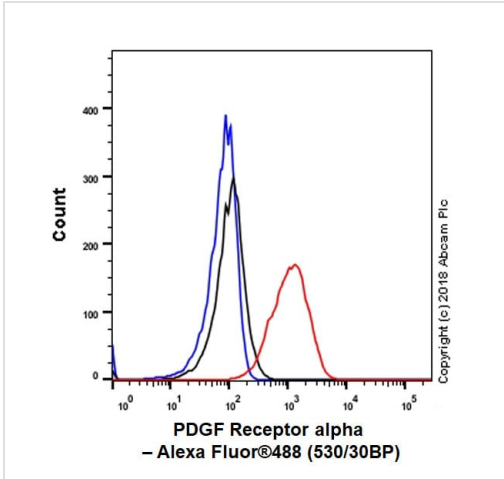
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Immunohistochemical analysis of paraffin-embedded mouse uterus tissue labeling PDGFR alpha with [ab203491](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on interstitial cells of mouse uterus (PMID: 25788664). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab203491](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

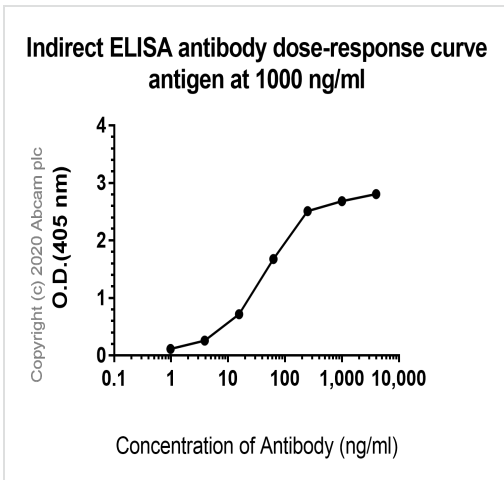


Flow Cytometry - Anti-PDGFR alpha antibody
[EPR22059-270] - BSA and Azide free (ab234965)

Flow cytometric analysis of NIH/3T3 (mouse embryo fibroblast cell line) cell line labeling PDGFR alpha with **ab203491** at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.

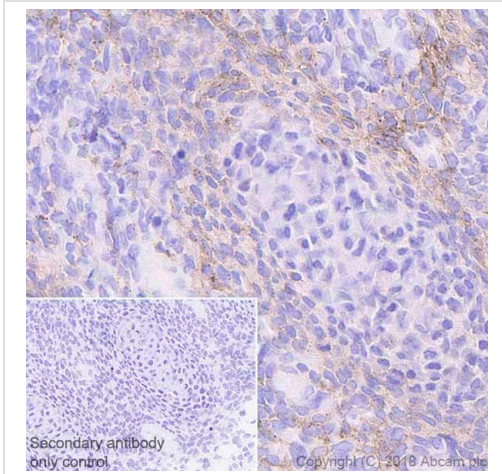
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).



Indirect ELISA - Anti-PDGFR alpha antibody
[EPR22059-270] - BSA and Azide free (ab234965)

indirect ELISA using **ab203491** at varying antibody concentrations (4000~0 ng/ml) and Human PDGF Receptor alpha antigen at 1000 ng/ml. Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution dilution was used as a secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).



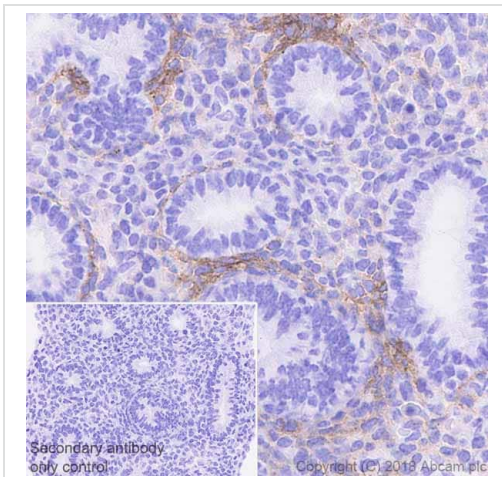
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Immunohistochemical analysis of paraffin-embedded rat E14.5 intervertebral disc tissue labeling PDGFR alpha with **ab203491** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in mesenchymal cells of rat E14.5 intervertebral disc (PMID: 9199674). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



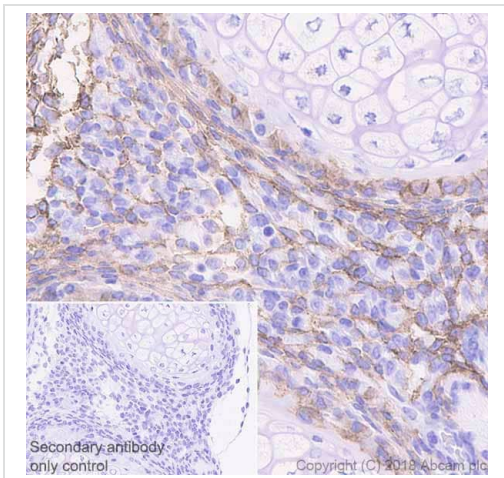
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Immunohistochemical analysis of paraffin-embedded mouse E14.5 lung tissue labeling PDGFR alpha with **ab203491** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in the mesenchyme of mouse E14.5 lung (PMID: 8681381). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



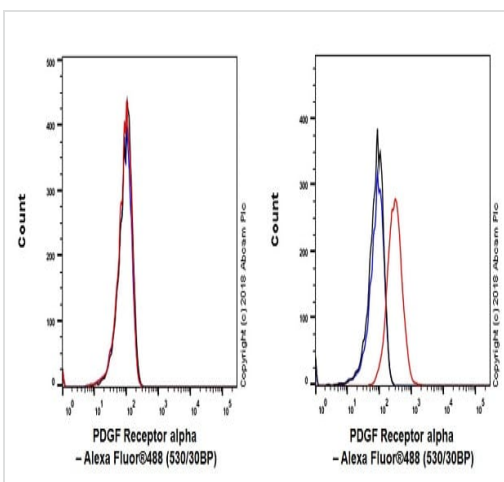
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Immunohistochemical analysis of paraffin-embedded mouse E14.5 intervertebral disc tissue labeling PDGFR alpha with **ab203491** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining in mesenchymal cells of mouse E14.5 intervertebral disc (PMID: 9199674). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Flow Cytometry - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Flow cytometric analysis of A-172 (human brain glioblastoma cell line, left) and A-204 (human muscle rhabdomyosarcoma cell line, right) cell lines labeling PDGFR alpha with **ab203491** at 1/50 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (**ab150077**) at 1/2000 dilution was used as the secondary antibody.

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab203491**).

Why choose a recombinant antibody?



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Consistent and reproducible results



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Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

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