abcam

ab234965

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

Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965) is a rabbit recombinant monoclonal antibody in a PBS only buffer for easy conjugation. Suitable for **Western Blot, Flow Cytometry, IP, IHC, ICC/IF, ELISA** in **Human, Mouse, Rat**. - KO validated for confirmed specificity
- BSA, sodium azide, and glycerol-free for easy conjugation
- Biophysical QC for unrivalled batch-batch consistency

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR22059-270
Purification technique	Affinity purification Protein A
Specificity	PDGFR alpha is membrane protein, so enrichment of membrane could help increasing the detection level of PDGFR alpha.
Concentration	1.045 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse, Human
Dilution info	-
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant full length protein - Human

Dilution info	-
Notes	-

I-ELISA

Tested

Species	Recombinant full length protein - Human
Dilution info	1 µg/mL
Notes	-

Expected

Species	Human, Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-

Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

IHC-Fr

Tested

Species	Human
Dilution info	-
Notes	-

Expected

Species	Mouse, Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	This antibody is better suited for Leica Biosystems BOND® RX instrument. For manual detection, please use the Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	-
Notes	This antibody is better suited for Leica Biosystems BOND® RX instrument. For manual detection, please use the Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	-
Notes	This antibody is better suited for Leica Biosystems BOND® RX instrument. For manual detection, please use the Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Not recommended

Species	Recombinant full length protein - Human
Dilution info	-
Notes	-

Target data

See full target information PDGFRA

Function	Tyrosine-protein kinase that acts as a cell-surface receptor for PDGFA, PDGFB and PDGFC and plays an essential role in the regulation of embryonic development, cell proliferation, survival and chemotaxis. Depending on the context, promotes or inhibits cell proliferation and cell migration. Plays an important role in the differentiation of bone marrow-derived mesenchymal stem cells. Required for normal skeleton development and cephalic closure during embryonic development. Required for normal development of the mucosa lining the

gastrointestinal tract, and for recruitment of mesenchymal cells and normal development of intestinal villi. Plays a role in cell migration and chemotaxis in wound healing. Plays a role in platelet activation, secretion of agonists from platelet granules, and in thrombin-induced platelet aggregation. Binding of its cognate ligands - homodimeric PDGFA, homodimeric PDGFB, heterodimers formed by PDGFA and PDGFB or homodimeric PDGFC -leads to the activation of several signaling cascades; the response depends on the nature of the bound ligand and is modulated by the formation of heterodimers between PDGFRA and PDGFRB. Phosphorylates PIK3R1, PLCG1, and PTPN11. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate, mobilization of cytosolic Ca(2+) and the activation of protein kinase C. Phosphorylates PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and thereby mediates activation of the AKT1 signaling pathway. Mediates activation of HRAS and of the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. Promotes activation of STAT family members STAT1, STAT3 and STAT5A and/or STAT5B. Receptor signaling is down-regulated by protein phosphatases that dephosphorylate the receptor and its down-stream effectors, and by rapid internalization of the activated receptor.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

What is this antibody validated in?
Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965) is a rabbit recombinant monoclonal antibody and is validated for use in Western Blot (WB), Flow Cytometry (Flow Cyt), Immunoprecipitation (IP), Immunohistochemistry (IHC-P), Immunohistochemistry (IHC-Fr), Immunocytochemistry/immunofluorescence (ICC/IF), ELISA in Human, Mouse, Rat samples.

What is the molecular weight of PDGFR alpha?
Anti-PDGFR alpha [EPR22059-270] - BSA and Azide free (ab234965) specifically detects a band for PDGFR alpha (UniProt: P16234) at a molecular weight of 122kDa.

Specificity confirmed
The specificity of Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965) has been confirmed by Western blot testing in PDGFRA Knockout SH-SY5Y cell line.

Other related products
We have a range of other formats of antibody clone [EPR22059-270] also available for your convenience: ab203491,

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

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility
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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	PDGFR alpha also known as platelet-derived growth factor receptor alpha is a cell surface receptor tyrosine kinase with a mass of approximately 123 kDa. It plays a mechanical role in transmitting signals across the cell membrane initiating cellular responses. PDGFR alpha is widely expressed in mesenchymal cells including fibroblasts and smooth muscle cells. Researchers frequently employ techniques such as PDGFRA IHC and PDGFRA staining to study the localization and expression levels in tissues.
Biological function summary	PDGFR alpha mediates cell proliferation survival and differentiation especially in embryonic development and wound healing. The receptor often forms a complex by dimerizing with itself or with PDGFR beta to activate intracellular signaling cascades. This process is initiated upon ligand binding which triggers autophosphorylation on tyrosine residues. The receptor is also recognized in the detection of PDGFRA with assays such as PDGFRA ELISA.
Pathways	PDGFR alpha significantly affects the MAPK and PI3K/AKT signaling pathways which regulate cellular growth and survival signals. Through these pathways PDGFR alpha interacts with related proteins like SHP-2 and PI3K contributing to

signal transduction involved in cellular responses. This role links PDGFR alpha to important cellular processes via its kinase activity and signal integration.

Associated diseases and disorders

PDGFR alpha is implicated in conditions such as gastrointestinal stromal tumors (GISTs) and idiopathic pulmonary fibrosis (IPF). It connects to proteins such as KIT in GISTs where mutations cause aberrant receptor signaling leading to tumorigenesis. Aberrant PDGFR alpha signaling also associates with IPF a disorder characterized by increased fibroblast proliferation and fibrotic tissue formation. These connections make PDGFR alpha a significant target for research and therapeutic intervention.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

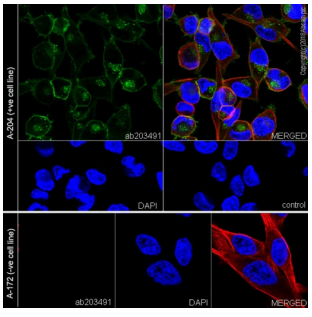
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

16 product images



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

PDGFR alpha Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PDGFR alpha antibody

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

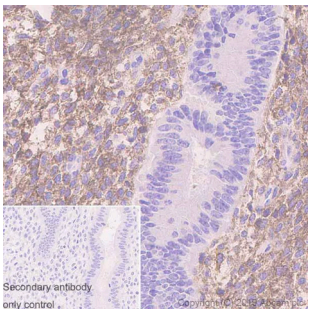
line) labeling PDGFR alpha with ab203491 at 1/500 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green).
Confocal image showing membranous and cytoplasmic staining in A-204 cell line.

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.

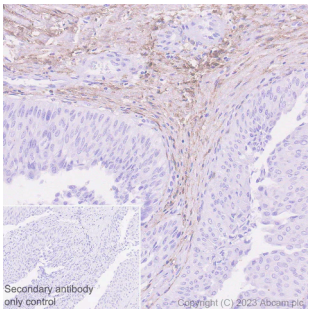
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab203491).



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

PDGFR alpha Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human endometrium tissue using rabbit Anti-PDGFR alpha antibody

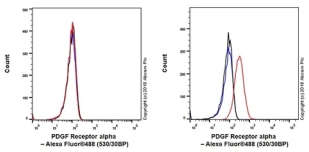
Immunohistochemical analysis of paraffin-embedded human endometrium tissue labeling PDGFR alpha with ab203491 at 0.26 µg/mL followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining in human endometrium was observed. The section was incubated with ab203491 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).



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

PDGFR alpha Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of human bladder carcinoma using rabbit Anti-PDGFR alpha antibody

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.

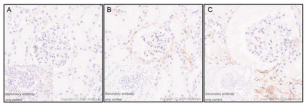


Flow Cytometry - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

PDGFR alpha Flow Cytometry staining using rabbit Anti-PDGFR alpha antibody

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).

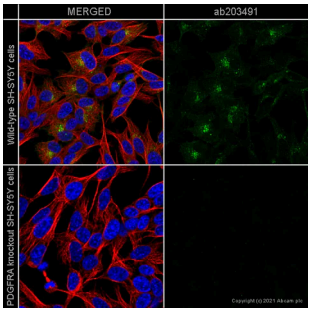


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

PDGFR alpha Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human kidney tissue using rabbit Anti-PDGFR alpha antibody

This data was developed using ab203491, the same antibody clone in a different buffer formulation.
Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling PDGFR alpha with ab203491 A, B. at 1/100 dilution (5.81µg/ml) overnight at 4 °C, and C, at 1/2000 dilution (0.29 µg/ml) for 30 mins at room temperature. A, Goat Anti-Rabbit IgG H&L (HRP polymer) (ab214880) used as secondary (ready to use), B, C. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) used as secondary (ready to use). Counterstained using Hematoxylin. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Positive staining on human kidney. A, B: Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0). C: Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 mins.

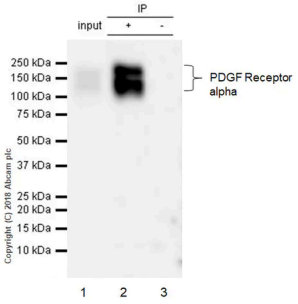
This antibody is better suited for Leica Biosystems BOND® RX instrument. For manual detection, please use the Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



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

PDGFR alpha Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PDGFR alpha antibody

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 PDGFRA 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 1µg/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 labelled in blue with DAPI.
Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).



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.

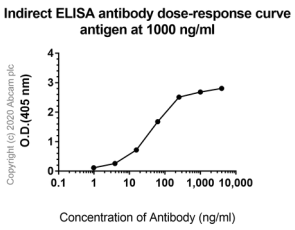
Exposure time: 50 seconds.

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

All lanes:
Immunoprecipitation - Anti-PDGFR alpha antibody [EPR22059-270] (ab203491)

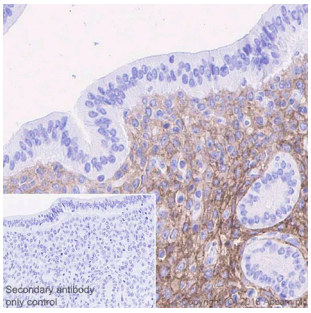
Predicted band size: 122 kDa

Observed band size: 150 kDa, 180 kDa



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).

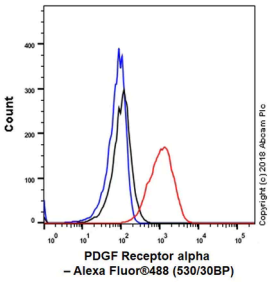


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

Immunohistochemical analysis of paraffin-embedded 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.

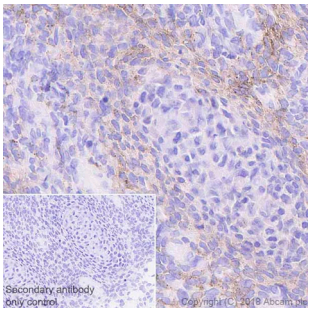


Flow Cytometry - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

PDGFR alpha Flow Cytometry staining using rabbit Anti-PDGFR alpha antibody

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).

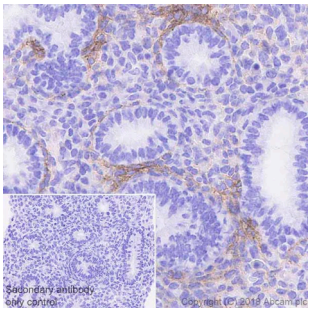


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

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.

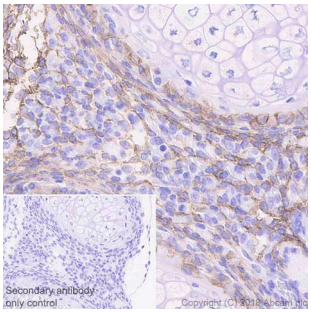


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

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.

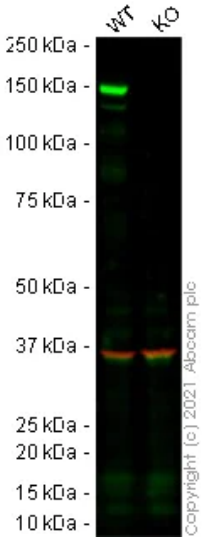


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-PDGFR alpha antibody [EPR22059-270] - BSA and Azide free (ab234965)

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.



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

PDGFR alpha Western blot staining using rabbit Anti-PDGFR alpha antibody

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.

All lanes:

Western blot - Anti-PDGFR alpha antibody [EPR22059-270] (ab203491) at 1/1000 dilution

Lane 1:
Wild-type SH-SY5Y cell lysate at 40 µg

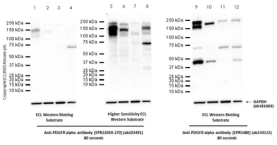
Lane 2:
PDGFRA knockout SH-SY5Y cell lysate at 40 µg

Lane 2:
Western blot - Human PDGFRA knockout SH-SY5Y cell line (ab275335)

Performed under reducing conditions.

Predicted band size: 122 kDa

Observed band size: 150 kDa



Western blot - 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). 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.
Lanes 1 - 8:
Western blot - Anti-PDGFR alpha antibody [EPR22059-270] (ab203491) at 1/1000 dilution

Lanes 9 - 12:
Western blot - Anti-PDGFR alpha antibody [EPR5480] (ab134123) at 1/1000 dilution

Lanes 1, 5 and 9:
SH-SY5Y

Lanes 2, 6 and 10:
Human brain tissue lysate at 20 µg

Lanes 3, 7 and 11:
Human heart tissue lysate at 20 µg

Lanes 4, 8 and 12:
Human lung tissue lysate at 20 µg

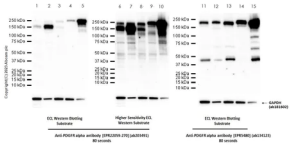
Secondary

All lanes:
Western blot at 1/2000 dilution

Predicted band size: 122 kDa

Observed band size: 150 kDa

Exposure time: 80s



Western blot - 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). 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.
Lanes 1 - 10:
Western blot - Anti-PDGFR alpha antibody [EPR22059-270] (ab203491) at 1/1000 dilution

Lanes 11 - 15:
Western blot - Anti-PDGFR alpha antibody [EPR5480] (ab134123) at 1/1000 dilution

Lanes 1, 6 and 11:
Rat heart tissue lysate at 20 µg

Lanes 2, 7 and 12:
Rat lung tissue lysate at 20 µg

Lanes 3, 8 and 13:
Mouse brain tissue lysate at 20 µg

Lanes 4, 9 and 14:
Mouse heart tissue lysate at 20 µg

Lanes 5, 10 and 15:
Mouse lung tissue lysate at 20 µg

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: 80s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.