

Anti-PDGFR alpha Antibody [PSH27-00]

HA724661



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IF-Cell, FC(Intra)
Molecular Wt:	Predicted band size: 123 kDa
Clone number:	PSH27-00

Description: Platelet-derived growth factor (PDGF) is a mitogen for mesenchyme- and glia-derived cells. PDGF consists of two chains, A and B, which dimerize to form functionally distinct isoforms, PDGF-AA, PDGF-AB and PDGF-BB. These three isoforms bind with different affinities to two receptor types, PDGFR- α and - β , which are endowed with protein tyrosine kinase domains. PDGFR- α can bind to both A and B subunits of PDGF, while PDGFR- β can only bind the B subunit. Ligand binding promotes either homo- or heterodimerization of the PDGF receptors in a specific manner. PDGF-AA induces the dimerization of two α receptors, PDGF-AB induces dimerization of $\alpha\alpha$ and $\alpha\beta$ and PDGF-BB induces the formation of three types of dimers, $\alpha\alpha$, $\alpha\beta$ and $\beta\beta$. Translocation of the PDGFR- β gene with the Tel gene is linked to chronic myelomonocytic leukemia (CMML), a myelodysplastic syndrome, and demonstrates the oncogenic potential of the PDGF receptors.

Positive control: A-204 (Human rhabdomyosarcoma cell) cell lysate, NIH/3T3 (Mouse fibroblast) cell lysate.

Subcellular location: Cell membrane, Cell projection, cilium, Golgi apparatus.

Database links: SwissProt: P16234 Human | P26618 Mouse | P20786 Rat

Recommended Dilutions:

WB	1:5,000
IF-Cell	1:50-1:100
FC(Intra)	1:1,000

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.2% Proclean 950.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

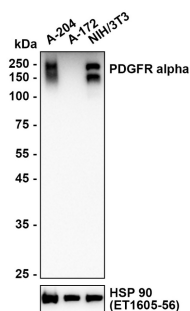
Technical:0086-571-89986345

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images



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Fig1: Western blot analysis of PDGFR alpha on different lysates with Rabbit anti-PDGFR alpha antibody (HA724661) at 1/5,000 dilution.

Lane 1: A-204 (Human rhabdomyosarcoma cell) cell lysate

Lane 2: A-172 (Human brain glioblastoma cell) cell lysate

Lane 3: NIH/3T3 (Mouse fibroblast) cell lysate

Lysates/proteins at 15 µg/Lane.

Exposure time: 1 minute 2 seconds ; ECL: K1801

A172 is a negative control (PMID: 8425771).

Blocking: 5% NFDN/TBST, 1 hour at room temperature

Primary antibody: HA724661, 1/5,000 in primary antibody dilution buffer (K1803), overnight at 4 °C

Secondary antibody: Goat anti-Rabbit IgG-HRP (HA1001), 1/50,000 in 5% NFDN/TBST, 1 hour at room temperature

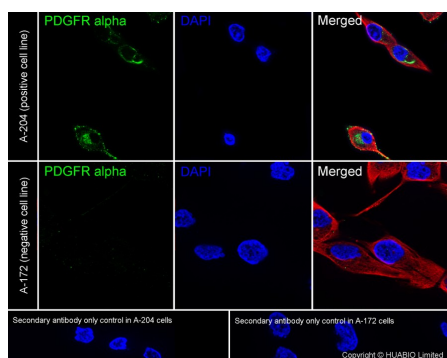
Predicted band size: 123 kDa

Observed band size: 150-200 kDa

Fig2: Application: Immunocytochemistry (IF-cell)

Species: Human

Sample: A-204 (Human rhabdomyosarcoma cell), A-172 (Human brain glioblastoma cell)



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Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724661, 1/100, overnight at 4°C.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

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

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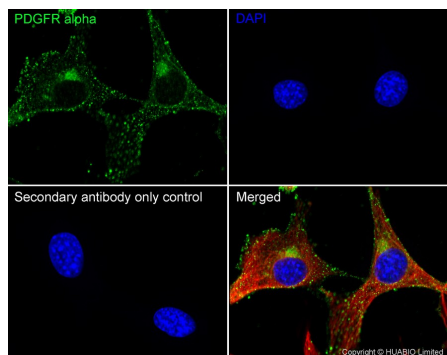
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Fig3: Application: Immunocytochemistry (IF-cell)

Species: Mouse

Sample: NIH/3T3 (Mouse fibroblast)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724661, 1/100, overnight at 4°C.

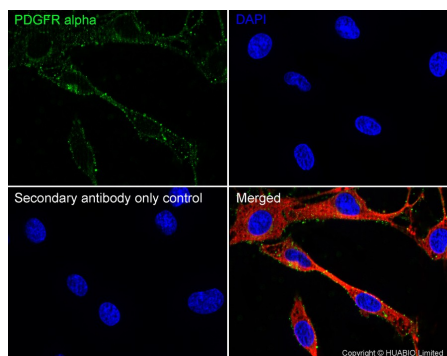
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

Fig4: Application: Immunocytochemistry (IF-cell)

Species: Rat

Sample: C6 (Rat glioma cell)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Triton X-100, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 1 hour at room temperature.

Antibody dilution buffer: 1% BSA in PBST.

Primary antibody: HA724661, 1/50, overnight at 4°C.

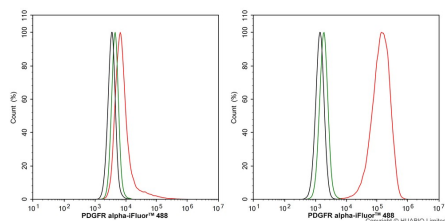
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 45 minutes at room temperature.

Counterstain: Beta tubulin (HA601187, Red), 1/100, overnight at 4°C. The nuclear counterstain was DAPI (Blue).

Fig5: Application: Flow Cytometry (Intra)

Species: Human

Sample: A-172 (Human brain glioblastoma cell) (Left, Negative) / A-204 (Human rhabdomyosarcoma cell) (Right)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Tween-20, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724661 (1/1,000, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

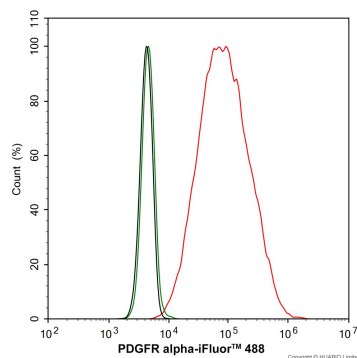
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

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

Fig6: Application: Flow Cytometry (Intra)

Species: Mouse

Sample: NIH/3T3 (Mouse fibroblasts)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.

Permeabilization: 0.1% Tween-20, 15 minutes at room temperature.

Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.

Antibody dilution buffer: 1x PBS.

Primary antibody: HA724661 (1/1,000, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.

Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

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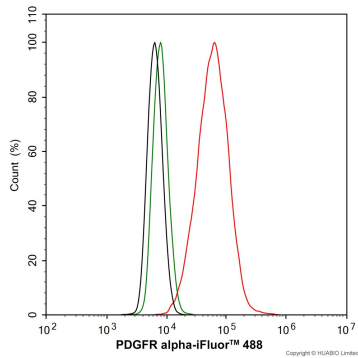
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Fig7: Application: Flow Cytometry (Intra)

Species: Rat
Sample: C6 (Rat glioma cells)



Fixation: 4% Paraformaldehyde, 15 minutes at room temperature.
Permeabilization: 0.1% Tween-20, 15 minutes at room temperature.
Blocking: 1% BSA + 10% normal goat serum, 15 minutes at room temperature.
Antibody dilution buffer: 1x PBS.

Primary antibody: HA724661 (1/1,000, Red) compared with Rabbit IgG Isotype Control (HA722127, Green), 15 minutes at room temperature.
Secondary antibody: Goat Anti-Rabbit IgG (iFluor™ 488, HA1121), 15 minutes at room temperature.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Zhang W et al. Immunohistochemical analysis of PDGFR-alpha for wound age determination. Int J Legal Med. 2024 Jul
2. Wang J et al. PDGFR-alpha shRNA-polyplex for uveal melanoma treatment via EMT mediated vasculogenic mimicry interfering. J Nanobiotechnology. 2024 Dec

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