

PDGFRA Polyclonal Antibody | anti-PDGFRA antibody

Anti-PDGFRA Antibody

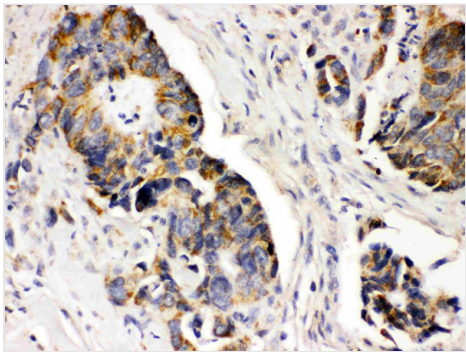
CATALOG # AAA46266	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

PDGFRA; Polyclonal Antibody; Anti-PDGFRA Antibody; Platelet-derived growth factor receptor alpha; Alpha platelet derived growth factor receptor; Alpha-type platelet-derived growth factor receptor; CD 140a; CD140 antigen-like family member A; CD140a; CD140a antigen; MGC74795; PDGF alpha chain; PDGF R alpha; PDGF-R-alpha; PDGFR 2; PDGFR A; PDGFR alpha; PDGFR2; PDGFRA/BCR fusion; PGFRA_HUMAN; Platelet derived growth factor receptor 2; Platelet derived growth factor receptor alpha; Platelet derived growth factor receptor alpha polypeptide; Platelet derived growth factor receptor; Rearranged in hypereosinophilia platelet derived growth factor receptor alpha fusion protein; RHEPDGFRA antibody; platelet-derived growth factor receptor; alpha polypeptide; anti-PDGFRA antibody

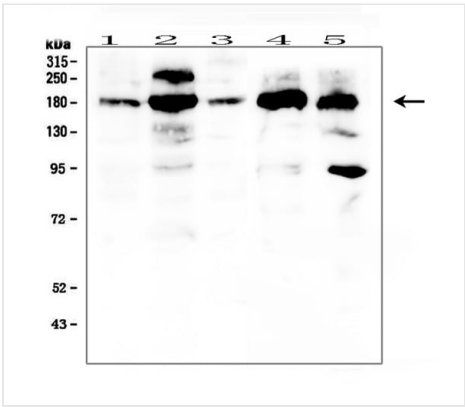
PRODUCT SPECIFICATIONS

Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1089
Applicable Applications for anti-PDGFRA antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human PDGFRA (968-1002aa DFLKSDHPAVARMRVSDNAYIGVTYKNEEDKLKD), identical to the related mouse sequence, and different from the related rat sequence by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of PDGFRA using anti-PDGFRA antibody (AAA46266).PDGFRA was detected in paraffin-embedded section of Human Intestinal Cancer Tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-PDGFRA Antibody (AAA46266) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of PDGFRA using anti- PDGFRA antibody (AAA46266).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human HT1080 whole cell lysates,Lane 2: human Caco-2 whole cell lysates,Lane 3: human U20S whole cell lysates,Lane 4: human PC-3 whole cell lysates,Lane 5: human 293T whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PDGFRA antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PDGFRA at approximately 123KD. The expected band size for PDGFRA is at 180KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PDGFRA antibody	Description: Rabbit IgG polyclonal antibody for Platelet-derived growth factor receptor alpha(PDGFRA) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: PDGFRA (Platelet-derived growth factor receptor, alpha), also called PDGFR2, encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. The PDGFA gene is mapped on 4q12. The PDGFRA-FIP1L1 gene is a constitutively activated tyrosine kinase that transforms hematopoietic cells and is a therapeutic target of imatinib. And the PDGFRA gene contains 23 exons spanning about 65 kb. Using the human PDGFRA promoter linked to a luciferase reporter, Joosten et al. showed that PAX1 acts as a transcriptional activator of the PDGFRA gene in differentiated human embryonal carcinoma cells. PDGFRA is responsible for mediating cellular contraction of multiple growth factors: TGFβ1 and members of the PDGF family. Lei et al. noted that in the rabbit model of the disease, PDGFRA is dramatically more capable of promoting PVR than is the closely related PDGFRB. PDGFRA is a critical receptor required for human CMV infection, and thus a target for novel antiviral therapies.
References	1. Baxter, E. J., Hochhaus, A., Bolufer, P., Reiter, A., Fernandez, J. M., Senent, L., Cervera, J., Moscardo, F., Sanz, M. A., Cross, N. C. P. The t(4;22)(q12;q11) in atypical chronic myeloid leukaemia fuses BCR to PDGFRA. Hum. Molec. Genet. 11: 1391-1397, 2002. 2. Chen, H., Gu, X., Liu, Y., Wang, J., Wirt, S. E., Bottino, R., Schorle, H., Sage, J., Kim, S, K. PDGF signalling controls age-dependent proliferation in pancreatic beta-cells. Nature 478: 349-355, 2011. 3. Chompret, A., Kannengiesser, C., Barrois, M., Terrier, P., Dahan, P., Tursz, T., Lenoir, G. M., Bressac-De Paillerets, B. PDGFRA germline mutation in a family with multiple cases of gastrointestinal stromal tumor. Gastroenterology 126: 318-321, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453870
NCBI GeneID	5156
NCBI Accession #	NP_006197.1
NCBI GenBank Nucleotide #	NM_006206.4

UniProt Accession #	P16234 ; Q6P4H5 ; Q96KZ7 ; Q9UD28 ; B2RE69 ; E9PBH0
Molecular Weight	82,809 Da
NCBI Official Full Name	platelet-derived growth factor receptor alpha
NCBI Official Synonym Full Names	platelet derived growth factor receptor alpha
NCBI Official Symbol	PDGFRA
NCBI Official Synonym Symbols	GAS9; CD140A; PDGFR2; PDGFR-2; RHEPDGFRA
NCBI Protein Information	platelet-derived growth factor receptor alpha
UniProt Protein Name	Platelet-derived growth factor receptor alpha
UniProt Gene Name	PDGFRA
UniProt Synonym Gene Names	PDGFR2; RHEPDGFRA; PDGF-R-alpha; PDGFR-alpha; PDGFR-2
UniProt Entry Name	PGFRA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pdgfra-antibody-immunohistochemistry-western-blot-elisa/46266>