

Anti-PDGFR $\alpha$  Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 117 kDa.
Purification:	Protein A purified

## Applications

1. Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min;  
Incubation: Anti-PDGFR $\alpha$  Polyclonal Antibody, Unconjugated (TMAB-01354) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining.
2. Blank control: Mouse Kidney (blue). Primary Antibody: Rabbit Anti-PDGFR $\alpha$  antibody (TMAB-01354,Green); Dilution: 1  $\mu$ g in 100  $\mu$ L 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange),used under the same conditions; Secondary Antibody: Goat anti-rabbit IgG-FITC (white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

## Protocol

## Verified Activity:

The cells were fixed with 2% paraformaldehyde for 10 min at 37°C. Primary antibody (TMAB-01354, 1  $\mu$ g/1x10<sup>6</sup> cells) were incubated for 30 min at room temperature, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/FITC antibody was added into the blocking buffer mentioned above to react with the primary antibody at 1/200 dilution for 40 min on ice.

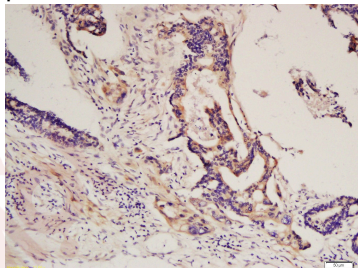
3. Black line: Positive blank control (SH-SY5Y); Negative blank control (A431)

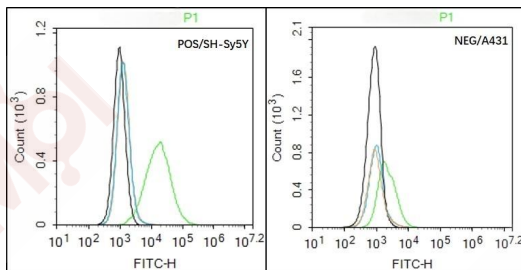
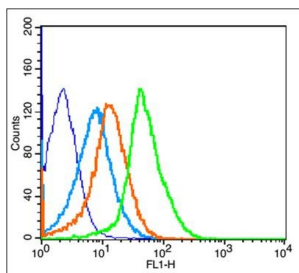
Green line: Primary Antibody (Rabbit Anti-PDGFR $\alpha$  antibody (TMAB-01354))

Orange line: Isotype Control Antibody (Rabbit IgG).

Blue line: Secondary Antibody (Goat anti-rabbit IgG-AF488)

SH-SY5Y (Positive) and A431 (Negative control) cells (black) were fixed with 4% PFA for 10 min at room temperature, permeabilized with 90% ice-cold methanol for 20 min at -20°C, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with PDGFR $\alpha$  Antibody (TMAB-01354) at 1:50 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2% BSA in PBS, followed by secondary antibody (blue) incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).





Application: FCM,IF,IHC-Fr,IHC-P

Recommended IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 1µg/Test

**Properties**

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

**Antigen Details**

Immunogen: KLH conjugated synthetic peptide: human PDGF-R-A

Antigen Species: Human

Gene ID: 5156

Uniprot ID: P16234

Synonyms: platelet-derived growth factor receptor,  $\alpha$  polypeptide; platelet-derived growth factor receptor, alpha polypeptide

Biology Area: PDGF,Growth factor receptors,Growth Factors,Inflammatory mediators,PDGF,Receptor Tyrosine Kinases

**Research Background**

This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest that this gene plays a role in organ development, wound healing, and tumor progression. Mutations in this gene have been associated with idiopathic hypereosinophilic syndrome, somatic and familial gastrointestinal stromal tumors, and a variety of other cancers. [provided by RefSeq, Mar 2012].

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