bs-0231R **[Primary Antibody]**

PDGFRA Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 5156 **SWISS:** P16234

Target: PDGFRA

Immunogen: KLH conjugated synthetic peptide derived from human PDGF-R-A: 1021-1089/1089.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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].

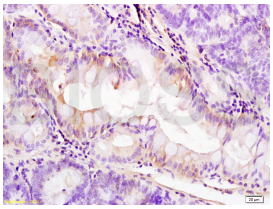
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Mouse, Rat, Dog (predicted: Pig, Cow, Chicken, Horse)

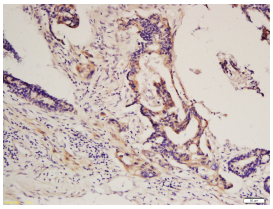
Predicted MW.: 117 kDa

Subcellular Location: Cell membrane

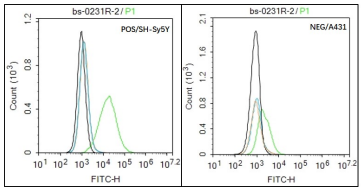
VALIDATION IMAGES



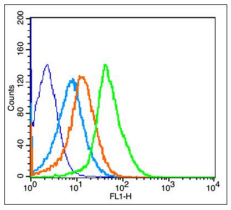
Tissue/cell: rat colitis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PDGFRA Polyclonal Antibody, Unconjugated(bs-0231R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: human colon carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-PDGFRA Polyclonal Antibody, Unconjugated(bs-0231R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Black line : Positive blank control (SH-Sy5Y); Negative blank control (A431） Green line : Primary Antibody (Rabbit Anti-PDGFRA antibody (bs-0231R)) 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 10min 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 PDGFRA Antibody(bs-0231R)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).



Blank control: Mouse Kidney (blue). Primary Antibody:Rabbit Anti-PDGFRA antibody (bs-0231R,Green); Dilution: 1μg in 100 μL 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 The cells were fixed with 2% paraformaldehyde for 10 min at 37°C. Primary antibody (bs-0231R, 1μg /1x10^6 cells) were incubated for 30 min at room temperature, followed by 1 X PBS containing 0.5% BSA + 1 0% 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. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=14.808]** Xue Gong. et al. Circular RNA circEsyt2 regulates vascular smooth muscle cell remodeling via splicing regulation. J Clin Invest. 2021 Dec 15;131(24):e147031 IF ;Mouse. 34907911
- **[IF=8.5]** Nahyun Choi. et al. Involvement of DKK1 secreted from adipose-derived stem cells in alopecia areata. CELL PROLIFERAT. 2023 Nov;:e13562 IF ;Human. 37991164
- **[IF=6.684]** Yang Shuo. et al. The Protective Effects of γ-Tocotrienol on Muscle Stem Cells Through Inhibiting Reactive Oxidative Stress Production. Front Cell Dev Biol. 2022 Mar;0:588 IHC ;Mouse. 35372342
- **[IF=6.208]** Casandra Walker. et al. Impact of Fetal Exposure to Endocrine Disrupting Chemical Mixtures on FOXA3 Gene and Protein Expression in Adult Rat Testes. INT J MOL SCI. 2023 Jan;24(2):1211 IF ;Rat. 36674726
- **[IF=4.927]** Wenjing Song. et al. Sigma-1 Receptor Activation Improves Oligodendrogenesis and Promotes White-Matter Integrity after Stroke in Mice with Diabetic Mellitus. MOLECULES. 2023 Jan;28(1):390 IHC ;Mouse. 36615583