

产品名称: PDGFR $\alpha$ (7A3)Mouse Monoclonal Antibody  
产品货号: AMM15907



## 产品概述 (Summary)

|                        |                                               |
|------------------------|-----------------------------------------------|
| 产品名称 (Production Name) | PDGFR $\alpha$ (7A3)Mouse Monoclonal Antibody |
| 描述 (Description)       | Mouse monoclonal Antibody                     |
| 宿主 (Host)              | Mouse                                         |
| 应用 (Application)       | IHC, ICC/IF                                   |
| 种属反应性 (Reactivity)     | Human, Rat, Mouse                             |

## 产品性能 (Performance)

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| 偶联物 (Conjugation)   | Unconjugated                                                                                      |
| 修饰 (Modification)   | Unmodified                                                                                        |
| 同种型 (Isotype)       | IgG                                                                                               |
| 克隆 (Clonality)      | Monoclonal                                                                                        |
| 形式 (Form)           | Liquid                                                                                            |
| 存放说明 (Storage)      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| 储存溶液 (Buffer)       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| 纯化方式 (Purification) | Affinity purification                                                                             |

## 免疫原信息 (Immunogen)

|                        |                                                                     |
|------------------------|---------------------------------------------------------------------|
| 基因名 (Gene Name)        | PDGFRA                                                              |
| 别名 (Alternative Names) | PDGFRA                                                              |
| 基因 ID (Gene ID)        | 5156.0                                                              |
| 蛋白 ID (SwissProt ID)   | P16234.Synthetic Peptide of PDGFR $\alpha$ at AA range of 1010-1090 |

## 产品应用 (Application)

|                          |                                    |
|--------------------------|------------------------------------|
| 稀释比 (Dilution Ratio)     | IHC 1:100-1:200, ICC/IF 1:50-1:200 |
| 蛋白分子量 (Molecular Weight) | 180kDa                             |

## 研究背景 (Background)

This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These

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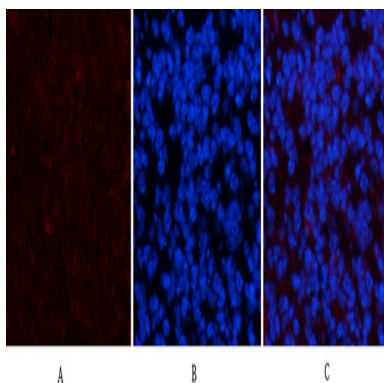


growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer or a heterodimer, composed of both platelet-derived growth factor receptor alpha and beta polypeptides. Studies suggest 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],catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:A fusion of PDGFRA and FIP1L1 (FIP1L1-PDGFR $\alpha$ ), due to an interstitial chromosomal deletion, is the cause of some cases of hypereosinophilic syndrome (HES) [MIM:607685]. HES is a rare hematologic disorder characterized by sustained overproduction of eosinophils in the bone marrow, eosinophilia, tissue infiltration and organ damage.,function:Receptor that binds both PDGFA and PDGFB and has a tyrosine-protein kinase activity.,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily.,similarity:Contains 1 protein kinase domain.,similarity:Contains 5 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Homodimer, and heterodimer with PDGFRB. Interacts with the SH2 domain of SHB via phosphorylated Tyr-720 (By similarity). Interacts with the SH2 domain of SHF via phosphorylated Tyr-720.,tissue specificity:Expressed in primary and metastatic colon tumors and in normal colon tissue. Tumors may express a different isoform to that found in normal tissue.,

## 研究领域 (Research Area)

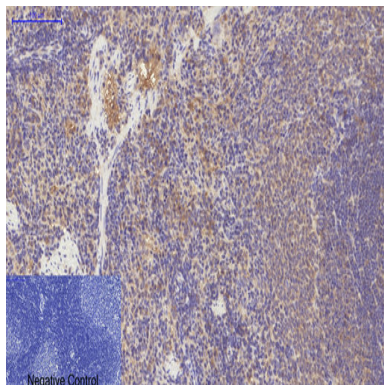
MAPK\_ERK\_Growth;MAPK\_G\_Protein;Calcium;Cytokine-cytokine receptor interaction;Endocytosis;Focal adhesion;Gap junction;Regulates Actin and Cytoskeleton;Pathways in cancer;Colorectal cancer;Glioma;Prostate cancer;Melanoma;

## 图片 (Image Data)

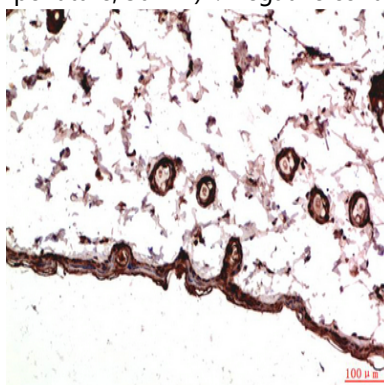


Immunofluorescence analysis of mouse-spleen tissue. 1,PDGFR $\alpha$  Mouse Monoclonal Antibody (7A3) (red) was diluted at 1:200 (4°C,overnight) . 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50min) .3, Picture B: DAPI (blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B

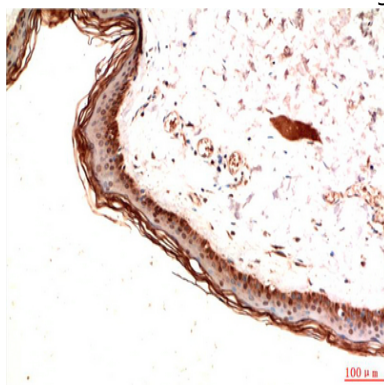
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Immunohistochemical analysis of paraffin-embedded Rat-spleen tissue. 1,PDGFR $\alpha$  Mouse Monoclonal Antibody (7A3) was diluted at 1:200 (4°C,overnight) . 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C,20min) . 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) . Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat Skin Tissue using PDGFR a Mouse mAb diluted at 1:200.



Immunohistochemical analysis of paraffin-embedded Human Skin Tissue using PDGFR a Mouse mAb diluted at 1:200.

## 注意事项 (Note)

For research use only .