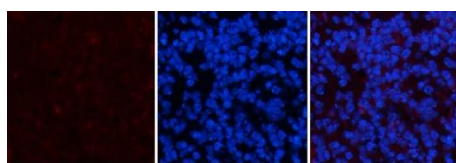


Product name:	PDGFR α (7A3)Mouse Monoclonal Antibody
Cat number:	MABN15907
Conjugate:	Unconjugated
Size:	100ul
Clone:	7A3
Concentration:	1mg/ml
Host:	Mouse
Isotype:	IgG
Immunogen:	Synthetic Peptide of PDGFR α at AA range of 1010-1090
Reactivity:	Human,Rat,Mouse
Applications:	IHC 1:100-1:200,ICC/IF 1:50-1:200
Molecular Weight:	180kDa
Purification:	Affinity purification
Form:	liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

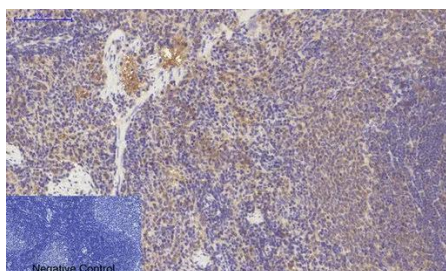


Background:

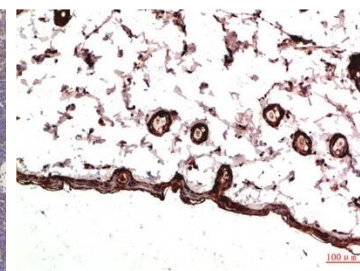
This gene encodes a cell surface tyrosine kinase receptor for members of the platelet-derived growth factor family. These growth factors are mitogens for cells of mesenchymal origin. The identity of the growth factor bound to a receptor monomer determines whether the functional receptor is a homodimer 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], catalytic activity: ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate., disease: A fusion of PDGFRA and FIP1L1 (FIP1L1-PDGFRα), 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.,



Immunofluorescence analysis of mouse-spleen tissue. 1, PDGFRα 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



Immunofluorescence analysis of mouse-spleen tissue. 1, PDGFRα 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



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