Product Data Sheet
PDGFRα(7A3)Mouse Monoclonal Antibody

Product name:	PDGFRα(7A3)Mouse Monoclonal Antibody
Cat number:	MABN15907
Conjugate:	Unconjugated
Size:	100ul
Clone:	7A3
Concentration:	1mg/ml
Host:	Mouse
Isotype:	IgG
Immunogen:	Synthetic Peptide of PDGFRα 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.
Synonyms:	PDGFRA
Source:	Mouse
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-PDGFRA), 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

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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.,

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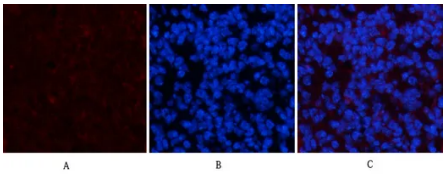
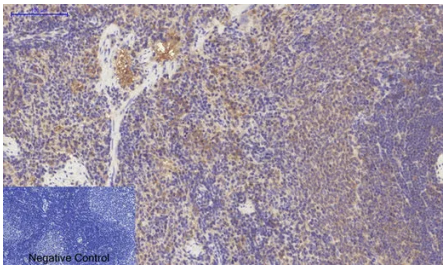


Immunofluorescence analysis of mouse-spleen tissue. 1,PDGFRα Mouse Monoclonal Antibody7A3red was diluted at 1:2004°C,overnight. 2, Cy3 labled Secondary antibody was diluted at 1:300room temperature, 50min.3, Picture B: DAPIblue 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B



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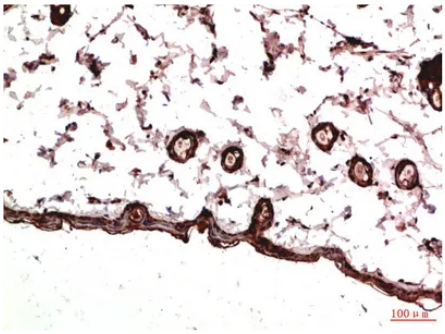
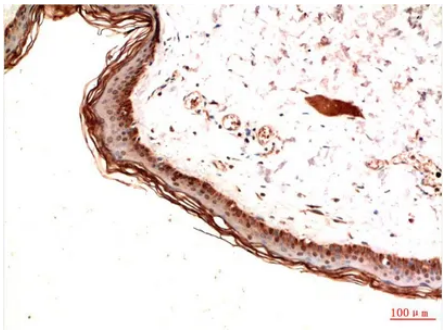


Immunohistochemical analysis of paraffin-embedded Rat Skin Tissue using PDGFR a Mouse mAb diluted at 1:200.



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