



# PDGFR- $\alpha$ Polyclonal Antibody

货号	YP-Ab-18341
同位型	IgG
应用	WB, IHC, IF, ELISA
种属	Human, Mouse,Rat
其他名称	PDGFRA ; PDGFR2 ; RHEPDGFRA ; Platelet-derived growth factor receptor alpha ; PDGF-R-alpha ; PDGFR-alpha ; Alpha platelet-derived growth factor receptor ; Alpha-type platelet-derived growth factor receptor ; CD140 antigen-like family member A ; CD14
基因名称	PDGFRA
蛋白名称	Platelet-derived growth factor receptor alpha
免疫原	The antiserum was produced against synthesized peptide derived from human PDGFR alpha. AA range:731-780
特异性	PDGFR- $\alpha$ Polyclonal Antibody detects endogenous levels of PDGFR- $\alpha$ protein.
组成	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
背景	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],
稀释	WB 1:500-2000; IHC 1:100-1:300; IF 1:200-1:1000; ELISA 1:5000; Not yet tested in other applications.
纯化工艺	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
分子量	122kD
功能	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.,

细胞定位	Cell membrane ; Single-pass type I membrane protein . Cell projection, cilium . Golgi apparatus .
组织表达	Detected in platelets (at protein level). Widely expressed. Detected in brain, fibroblasts, smooth muscle, heart, and embryo. Expressed in primary and metastatic colon tumors and in normal colon tissue.
浓度	1 mg/ml
储存	-15°C to -25°C/1 year(Do not lower than -25°C)
有关注意事项	Avoid repeated freezing and thawing!
使用建议	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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