

Recombinant PDGF alpha receptor/PDGFRα Monoclonal Antibody

catalog number: **AN300575P**

Note: Centrifuge before opening to ensure complete recovery of vial contents.

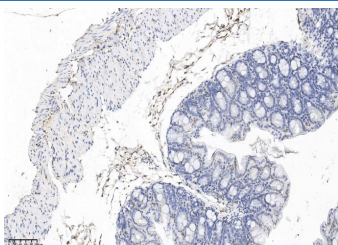
Description

Reactivity	Mouse
Immunogen	Recombinant Mouse PDGF alpha receptor/PDGFRα Protein
Host	Rabbit
Isotype	IgG
Clone	11A2
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

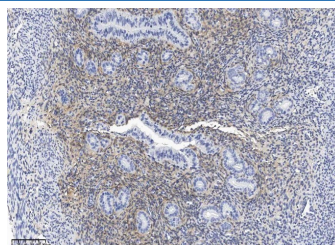
Applications Recommended Dilution

IHC-P	1:100-1:500
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Data



Immunohistochemistry of paraffin-embedded Mouse blindgut using PDGF alpha receptor/PDGFRα Monoclonal Antibody at dilution of 1:200.



Immunohistochemistry of paraffin-embedded Mouse uterus using PDGF alpha receptor/PDGFRα Monoclonal Antibody at dilution of 1:200.

Preparation & Storage

Storage	This antibody can be stored at 2°C-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20°C to -80°C. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

PDGFRα, also known as CD140a, together with the structurally homolog protein PDGFRβ (CD140b), are cell surface receptors for members of the platelet-derived growth factor family. They are members of the class III subfamily of receptor tyrosine kinase (RTKs) with the similar structure characteristics of five immunoglobulin-like domains in their extracellular region and a split kinase domain in their intracellular region. PDGFRα is expressed in oligodendrocyte progenitor cells and mesothelial cell, and binds all three ligand isoforms PDGF-AA, PDGF-BB and PDGF-AB with high affinity, whereas PDGFRβ does not bind PDGF-AA. PDGFRα plays an essential role in regulating proliferation, chemotaxis and migration of mesangial cells. Recent studies have indicated that PDGFRα acts as a critical mediator of signaling in testis organogenesis and Leydig cell differentiation, and in addition, particularly important for kidney development. Additionally, PDGFRα is involved in tumor angiogenesis and maintenance of the tumor microenvironment and has been implicated in development and metastasis of Hepatocellular carcinoma (HCC). PDGFRα may represent a potential therapeutic target in thymic tumours. PDGFRα gene amplification rather than gene mutation may be the underlying genetic mechanism driving PDGFRα overexpression in a portion of gliomas.

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