

## Pdgfd Antibody / Platelet-derived growth factor D (F54847)

Catalog No.	Formulation	Size
F54847-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54847-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

**Bulk quote request**

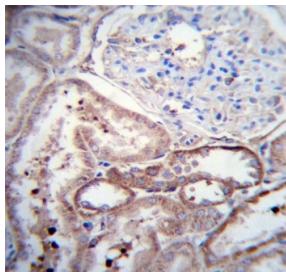
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit Ig
<b>Purity</b>	Antigen affinity purified
<b>UniProt</b>	Q9EQT1
<b>Applications</b>	Western Blot : 1:500-1:1000 Immunohistochemistry (FFPE) : 1:10-1:50
<b>Limitations</b>	This Pdgfd antibody is available for research use only.

kDa  
130-  
100-  
70-  
55-  
35-  
25-  
15-

Western blot testing of rat kidney tissue lysate with Pdgfd antibody. Predicted molecular weight ~43 kDa.

kDa  
130-  
100-  
70-  
55-  
35-  
25-

Western blot testing of mouse liver tissue lysate with Pdgfd antibody. Predicted molecular weight ~43 kDa.



IHC testing of FFPE human kidney tissue with Pdgfd antibody. HIER: steam section in pH6 citrate buffer for 20 min and allow to cool prior to staining.

## Description

PDGFD antibody targets Platelet-derived growth factor D (PDGF-D), encoded by the PDGFD gene. Platelet-derived growth factor D is a secreted, extracellular signaling protein in the platelet-derived growth factor family that helps coordinate communication between epithelial, stromal, and vascular cells. As a growth factor ligand, PDGF-D is produced as a latent precursor that can be proteolytically processed in the extracellular environment, supporting regulated activation in tissue microenvironments.

Functionally, Platelet-derived growth factor D promotes signaling through PDGF receptor pathways, with downstream effects that can include MAPK and PI3K-AKT network activation depending on cell type and receptor context. These signals are commonly tied to cell proliferation, migration, and survival programs, making PDGF-D relevant for studies of tissue remodeling and stromal-vascular crosstalk. A PDGFD antibody supports research focused on growth factor biology, receptor-ligand signaling, and extracellular regulation of paracrine pathways.

PDGF-D expression is often discussed in the context of stromal cells, smooth muscle-like populations, fibroblasts, and tumor associated microenvironments, where PDGF family signaling can shape matrix remodeling and vascular support. Because PDGF-D is secreted, it may be detected in pericellular spaces, extracellular matrix associated compartments, or conditioned media depending on experimental design. The spatial distribution of PDGF-D can reflect both where it is produced and where it is activated by local protease activity.

From a disease relevance perspective, Platelet-derived growth factor D has been investigated in fibrosis and cancer biology, where dysregulated growth factor signaling can contribute to aberrant stromal activation, angiogenic support, and progressive tissue remodeling. In these settings, PDGF-D can be studied as part of broader PDGF axis activity that influences fibroblast behavior, vascular stability, and epithelial-stromal interactions. This makes PDGF-D a useful target for pathway level studies that link extracellular ligands to receptor driven remodeling phenotypes.

At the molecular level, Platelet-derived growth factor D contains conserved PDGF family features and a regulatory propeptide that helps control ligand activity until processing occurs. Experimental readouts may vary with sample preparation, extracellular processing state, and the balance of latent versus activated forms in a given system. PDGFD antibody reagents support studies of PDGF axis signaling and extracellular ligand biology, with NSJ Bioreagents providing reagents intended for research use.

## Application Notes

The stated application concentrations are suggested starting points. Titration of the Pdgfd antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

A portion of amino acids 313-341 from the rat protein was used as the immunogen for the Pdgfd antibody.

## Storage

Aliquot the Pdgfd antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.

