



[Go to Product page](#)

Datasheet for ABIN7317104

## PDGFRA Protein (GST tag,His tag)

### 1 Image

#### Overview

Quantity:	50 µg
Target:	PDGFRA
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PDGFRA protein is labelled with GST tag,His tag.

#### Product Details

Purpose:	Recombinant Human PDGFRA/CD140a Protein (His & GST Tag)(Active)
Sequence:	Gln551-Leu1089
Characteristics:	A DNA sequence encoding the human PDGFRA (P16234-1) (Gln551-Leu1089) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	The specific activity was determined to be 8 nmol/min/mg using MBP as substrate.

#### Target Details

Target:	PDGFRA
Alternative Name:	PDGFRA/CD140a ( <a href="#">PDGFRA Products</a> )

## Target Details

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**Background:** Background: PDGFRA, also known as CD140a, together with the structurally homolog protein PDGFRB (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. PDGFRA 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 PDGFRB dose not bind PDGF-AA. PDGFRA plays an essential role in regulating proliferation, chemotaxis and migration of mesangial cells. Recent studies have indicated that PDGFRA acts as a critical mediator of signaling in testis organogenesis and Leydig cell differentiation, and in addition, particularly important for kidney development. Additionally, PDGFRA is involved in tumor angiogenesis and maintenance of the tumor microenvironment and has been implicated in development and metastasis of Hepatocellular carcinoma (HCC). PDGFRA may represent a potential therapeutic target in thymic tumours. PDGFRA gene amplification rather than gene mutation may be the underlying genetic mechanism driving PDGFRA overexpression in a portion of gliomas. Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy

**Synonym:** CD140A;PDGFR-2;PDGFR2;RHEPDGFRA;Platelet-derived growth factor receptor alpha; PDGFR-alpha; Alpha platelet-derived growth factor receptor;CD140 antigen-like family member A; Platelet-derived growth factor alpha receptor; Platelet-derived growth factor receptor 2

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**Molecular Weight:** 89.2 kDa

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**Pathways:** [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Platelet-derived growth Factor Receptor Signaling](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Frozen, Liquid

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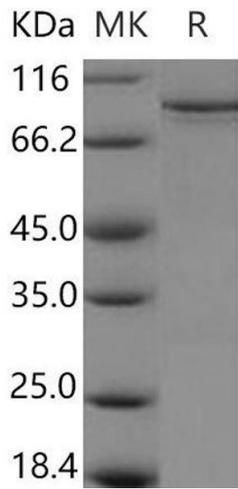
**Buffer:** Supplied as sterile 20 mM Tris, 500 mM NaCl, pH 7.4, 10 % glycerol, 3 mM DTT

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**Storage:** -20 °C

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**Storage Comment:** Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.



### Western Blotting

Image 1.