

## Recombinant Mouse Pdgfra, GST-tagged, Active

Cat. No. Pdgfra-385M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse full-length Pdgfra (550-end) was expressed by <i>baculovirus</i> in Sf9 insect cells using an N-terminal GST tag. MW=100 kDa.
<b>Species</b>	Mouse
<b>Source</b>	Sf9 Cells
<b>Description</b>	PDGFR $\alpha$ (platelet-derived growth factor receptor $\alpha$ ) is a member of the PDGFR family of membrane receptors with intrinsic tyrosine kinase activity. Aberrant expression of PDGFR $\alpha$ has been linked to developmental abnormalities in vertebrate models and has been implicated in multiple disease states in humans. There is widespread expression of PDGFR $\alpha$ in renal cell types involved in fibrotic and sclerosing processes. PDGF and its receptor PDGFR $\alpha$ are inducers of fibrosis in the repair phase of inflammatory bowel disease and they may also be involved in the active inflammatory phase.
<b>Sequence</b>	550-end.
<b>Applications</b>	Kinase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

### GENE INFORMATION

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<b>Gene Name</b>	Pdgfra platelet derived growth factor receptor, alpha polypeptide [ <i>Mus musculus</i> ]
<b>Synonyms</b>	Pdgfra; platelet derived growth factor receptor, alpha polypeptide; CD140a; Pdgfr-2; A1115593; PDGF alpha chain; Alpha platelet-derived growth factor receptor precursor (PDGF-R-alpha); EC 2.7.10.1
<b>Gene ID</b>	18595
<b>mRNA Refseq</b>	NM_001083316
<b>Protein Refseq</b>	NP_001076785
<b>UniProt ID</b>	P26618
<b>Chromosome Location</b>	5 C3.3; 5 42.0 cM
<b>Pathway</b>	Calcium signaling pathway; Colorectal cancer; Cytokine-cytokine receptor interaction; Endocytosis; Focal adhesion; Gap junction; Glioma; Pathways in cancer; Regulation of actin cytoskeleton; MAPK signaling pathway
<b>Function</b>	ATP binding; nucleotide binding; platelet-derived growth factor alpha-receptor activity; platelet-derived growth factor binding; platelet-derived growth factor receptor binding; protein heterodimerization activity; receptor activity; transferase activity; vascular endothelial growth factor receptor activity

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