

For Research Use Only

# NeutraKine® PDGF-BB Mouse McAb

Catalog Number: 69020-1-Ig **2 Publications**



## Basic Information

Catalog Number:	69020-1-Ig	GenBank Accession Number:	Purification Method:
Size:	100ug	GeneID (NCBI):	Protein G purification
Source:	Mouse	5155	CloneNo.:
Isotype:	IgG1	Full Name:	4G11C7
Immunogen Catalog Number:	HZ-1308	platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)	

## Applications

Tested Applications:	Neutralization, ELISA	Positive Controls:	
Cited Applications:	ELISA, Cell treatment	Neutralization :	BALB/3T3 cells, BALB/3T3
Species Specificity:	human	ELISA :	Recombinant protein,
Cited Species:	human		

## Background Information

Platelet-derived growth factor (PDGF) belongs to the family of growth factors consisting of four secreted extracellular ligands including PDGF-A, -B, -C and -D. These isoforms, PDGF-AA, PDGF-AB, PDGF-BB, PDGF-CC and PDGF-DD, act via two receptor tyrosine kinases, PDGF receptors alpha and beta. PDGF isoforms stimulate growth, survival and motility of mesenchymal cells and certain other cell type. They have important functions during embryonal development and in the control of tissue homeostasis in the adult. PDGF-BB is one of the most recently studied isoforms and it plays an important role in skeletal development. PDGF-BB stimulates cell-mediated collagen gel contraction. PDGF-BB modulates endothelial proliferation and angiogenesis in vitro via PDGF beta-receptors.

This antibody can be used to neutralize the bioactivity of PDGF-BB.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yao Zhang	36356714	Free Radic Biol Med	ELISA
Yifan Wang	36549436	Metabolism	Cell treatment

## Storage

**Storage:**  
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

**Storage Buffer:**  
Sterile PBS, pH7.4

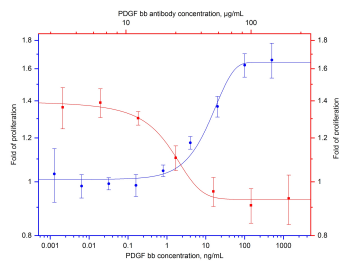
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

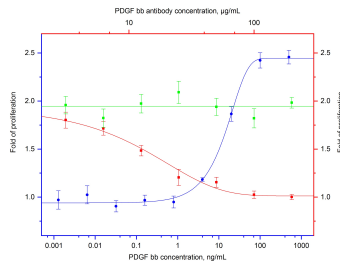
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E: proteintech@ptglab.com  
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

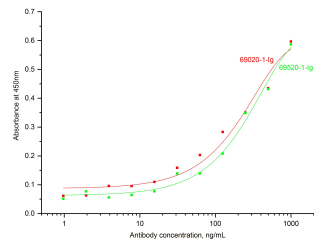
## Selected Validation Data



Recombinant human PDGFbb (Cat.NO. HZ-1308) stimulates proliferation of BALB/3T3 (mouse fibroblast cell line) in a dose dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human PDGFbb (20 $\text{ng/mL}$  HZ-1308) is neutralized by mouse anti-human PDGFbb monoclonal antibody 69020-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 20-50  $\mu\text{g/mL}$ .



Recombinant human PDGF bb (Cat.NO. HZ-1308) stimulates the proliferation of BALB/3T3 cells (mouse fibroblast cell) in a dose-dependent manner (blue curve, refer to bottom X-left Y axis). The activity of human PDGF bb (20  $\text{ng/mL}$  HZ-1308) is neutralized by mouse anti-human PDGF bb monoclonal antibody 69020-1-Ig at serial dose (red curve, refer to top X-right Y axis). The ND50 is typically 20-50  $\mu\text{g/mL}$ . The NeutraControl mouse anti-human PDGF bb monoclonal



Indirect ELISA was carried out by coating recombinant Human PDGF bb (Cat.NO. HZ-1308) at 70  $\text{ng/well}$  followed by blocking and adding serial diluted PDGF bb antibody 69020-1-Ig and 69520-1-Ig respectively. Signal was developed with TMB and stopped by  $\text{H}_2\text{SO}_4$ . Signal strength was measured by absorbance at 450 nm.