

For Research Use Only

# NeutraKine® PDGF-BB Mouse McAb

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



## Basic Information

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

## Applications

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

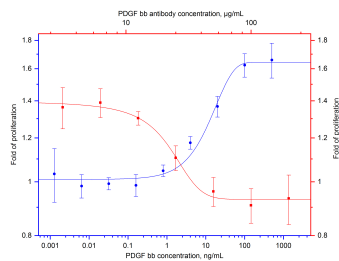
**Storage Buffer:**  
Sterile PBS, pH7.4

Aliquoting is unnecessary for -20°C storage

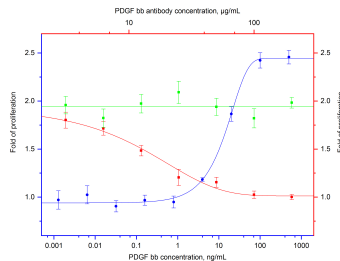
For technical support and original validation data for this product please contact:  
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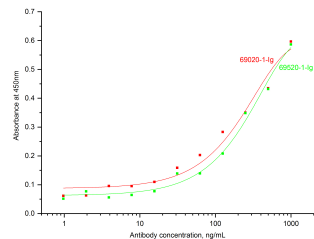
## Selected Validation Data



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 (20ng/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  $\mu$ 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 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  $\mu$ 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 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 H2SO4. Signal strength was measured by absorbance at 450 nm.