

# NeutraControl PDGF-BB Monoclonal antibody

Catalog Number: 69520-1-Ig

1 Publications

## Basic Information

Catalog Number:

69520-1-Ig

Size:

100ug

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

HZ-1308

GenBank Accession Number:

GeneID (NCBI):

5155

Full Name:

platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)

Purification Method:

Protein A purification

CloneNo.:

4E2C7

## Applications

Tested Applications:

ELISA, Non-Neutralization

Cited Applications:

ELISA

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 is a neutralizing control antibody for PDGF-BB, the immunogen is the same as Neutrakine 69020-1-Ig but could not neutralize human PDGF-BB.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yao Zhang	36356714	Free Radic Biol Med	ELISA

## 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.

Aliquoting is unnecessary for -20°C storage

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

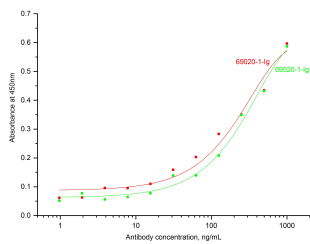
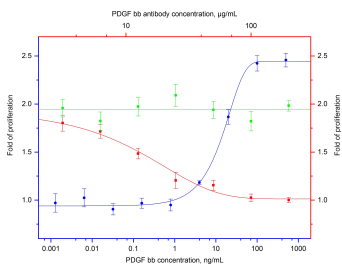
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## Selected Validation Data



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.