

For Research Use Only

# NeutraControl PDGF-BB Monoclonal antibody, PBS Only

Catalog Number: 69520-1-PBS



## Basic Information

<b>Catalog Number:</b> 69520-1-PBS	<b>GenBank Accession Number:</b> GeneID (NCBI): 5155	<b>Purification Method:</b> Protein A purification
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P01127	<b>CloneNo.:</b> 4E2C7
<b>Isotype:</b> IgG2a	<b>Full Name:</b> platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog)	
<b>Immunogen Catalog Number:</b> HZ-1308		

## Applications

**Tested Applications:**  
ELISA, Non-Neutralization

**Species Specificity:**  
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.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**  
**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:

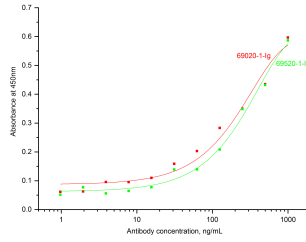
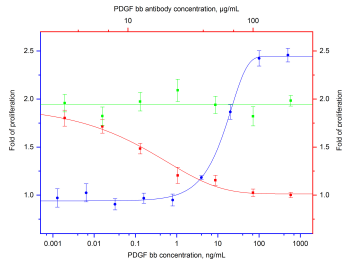
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**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data



Recombinant human 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. This data was developed using the same antibody clone with 69520-1-PBS in a different storage buffer formulation.