

# Human PDGF-B Subunit Antibody

## Purified No Carrier Protein

### Monoclonal Antibody

#### Product Information

**Product No.:** P272  
**Clone:** 108132  
**RRID:** AB\_2831568  
**Isotype:** Mouse IgG1  
**Storage:** -20°C to -70°C

#### Product Description

##### Specificity:

Mouse Anti-Human Platelet-Derived Growth Factor B (PDGF-B) (Clone 108132) recognizes an epitope on Human PDGF-B. This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype. In direct ELISAs, this antibody shows approximately 40% cross-reactivity with rhPDGF-AB and no cross-reactivity with rhCTGF, rhLDGF, rhPDGF-AA, rrPDGF-AA, rrPDGF-AB, rrPDGF-BB, rhPDGF-C, rhPDGF-D, rhPIGF, rhVEGF, rhVEGF-C, or rhVEGF-D

##### Background:

PDGFs are disulfide-linked dimers consisting of two 12.0-13.5 kDa polypeptide chains, designated PDGF-A and PDGF-B chains. The three naturally occurring PDGFs; PDGF-AA, PDGF-BB and PDGF-AB, are potent mitogens for a variety of cell types including smooth muscle cells, connective tissue cells, bone and cartilage cells, and some blood cells. The PDGFs are stored in platelet alpha-granules and are released upon platelet activation. The PDGFs are involved in a number of biological processes, including hyperplasia, chemotaxis, embryonic neuron development, and respiratory tubule epithelial cell development. Two distinct signaling receptors used by PDGFs have been identified and named PDGFR-alpha and PDGFR-beta. PDGFR-alpha is high-affinity receptor for each of the three PDGF forms. On the other hand, PDGFR-beta interacts with only PDGF-BB and PDGF-AB

##### Known Reactivity Species:

Human

##### Format:

Purified No Carrier Protein

##### Immunogen:

Purified Recombinant Human PDGF-B (Accession # P01127)

##### Formulation

This monoclonal antibody has been 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 - 7.4 containing 5.0% w/v trehalose with no calcium, magnesium or preservatives present.

##### Storage and Stability

The lyophilized antibody can be stored desiccated at -20°C to -70°C for up to twelve months. The reconstituted antibody can be stored for at least four weeks at 2-8°C. For long-term storage of the reconstituted antibody, aseptically aliquot into working volumes and store at -20°C to -70°C in a manual defrost freezer. **Avoid repeated freeze thaw cycles.** No detectable loss of activity was observed after six months.

## Product Datasheet

www.leinco.com

### Applications

#### Applications and Recommended Usage (Quality Tested By Leinco):

**Western Blotting:** To detect Human PDGF-B this monoclonal antibody can be used at a concentration of 1-2 µg/ml. This monoclonal antibody should be used in conjunction with compatible second-step reagents such as PN:M114 and a chromogenic substrate such as PN:T343. The detection limit for Human PDGF-B is 2 ng/lane under either reducing or non-reducing conditions. The sensitivity of detection may increase up to 50 fold when a chemiluminescent substrate is used. A suitable Western blotting control is PN:P126.

### Country of Origin

USA

### References

1. Pullen, N. *et al.* (2015) *Biochemistry*.54(10):1918-29.
2. Wei, Q. *et al.* (2018) *Int J Cancer*. 142(7):1322-1331.