

Anti-Mouse/Rat PDGF-BB Antibody [PSH16-06] - BSA and Azide free (Detector)

HA723811



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse, Rat
Applications:	ELISA(Det)
Clone number:	PSH16-06

Description: Platelet-derived growth factor subunit B is a protein that in humans is encoded by the PDGFB gene. The protein encoded by this gene is a member of the platelet-derived growth factor family. The four members of this family are mitogenic factors for cells of mesenchymal origin and are characterized by a motif of eight cysteines. This gene product can exist either as a homodimer (PDGF-BB) or as a heterodimer with the platelet-derived growth factor alpha (PDGFA) polypeptide (PDGF-AB), where the dimers are connected by disulfide bonds.

Immunogen: Recombinant protein within Mouse PDGF B aa 82-190 (HA211037).

Positive control: Recombinant Mouse PDGF-BB protein (HA211037).

Subcellular location: Secreted.

Database links: SwissProt: P31240 Mouse | Q05028 Rat

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH16-05] to Mouse PDGF-BB antibody (Capture) (HA723810) or Rabbit monoclonal [PSH16-07] to Mouse PDGF-BB antibody (Capture) (HA723812) and Recombinant Mouse PDGF-BB protein (HA211037) as the standard. The reference range value is 3.9-5,00 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

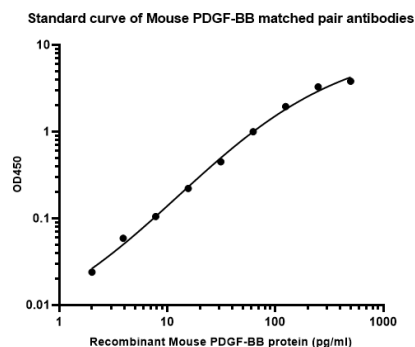
Technical:0086-571-89986345

Service mail:support@huabio.cn

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Fig1: Sandwich ELISA analysis of Mouse PDGF-BB matched pair antibodies

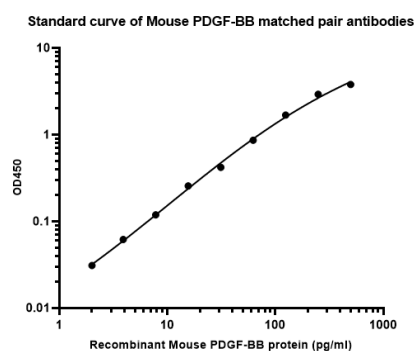
Capture: HA723810, Mouse PDGF-BB Rabbit mAb [PSH16-05]
 Detector: HA723811, Mouse PDGF-BB Rabbit mAb [PSH16-06]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723810) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Mouse PDGF-BB protein (HA211037) protein starting from 500 pg/ml to 0 pg/ml and detect antibody (HA723811, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Fig2: Sandwich ELISA analysis of Mouse PDGF-BB matched pair antibodies

Capture: HA723812, Mouse PDGF-BB Rabbit mAb [PSH16-07]
 Detector: HA723811, Mouse PDGF-BB Rabbit mAb [PSH16-06]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723812) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Mouse PDGF-BB protein (HA211037) protein starting from 500 pg/ml to 0 pg/ml and detect antibody (HA723811, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

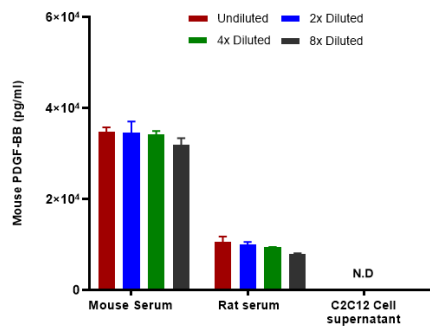


Fig3: Interpolated concentrations of native PDGF-BB in mouse and rat samples.

Capture: HA723810, Mouse PDGF-BB Rabbit mAb [PSH16-05]
 Detector: HA723811, Mouse PDGF-BB Rabbit mAb [PSH16-06]

Interpolated concentration of native PDGF-BB was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean +/- SD, n=2). The mean PDGF-BB concentration was determined to be 32,761 pg/mL in mouse Serum and 8,427 pg/ml in rat serum. There was no detectable signal in C2C12 cell culture supernatant.

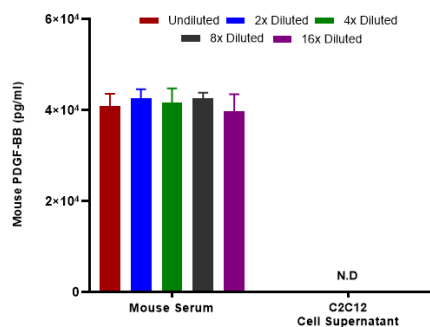


Fig4: Interpolated concentrations of native PDGF-BB in mouse samples.

Capture: HA723812, Mouse PDGF-BB Rabbit mAb [PSH16-07]
 Detector: HA723811, Mouse PDGF-BB Rabbit mAb [PSH16-06]

Interpolated concentration of native PDGF-BB was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean +/- SD, n=2). The mean PDGF-BB concentration was determined to be 41,600 pg/mL in mouse Serum. There was no detectable signal in C2C12 cell culture supernatant.

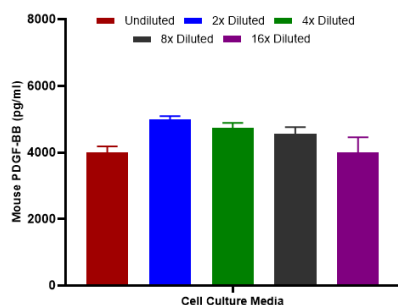


Fig5: Interpolated concentrations of spiked PDGF-BB in cell culture media samples.

Capture: HA723810, Mouse PDGF-BB Rabbit mAb [PSH16-05]
 Detector: HA723811, Mouse PDGF-BB Rabbit mAb [PSH16-06]

The concentrations of PDGF-BB were measured in duplicates, interpolated from the PDGF-BB standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

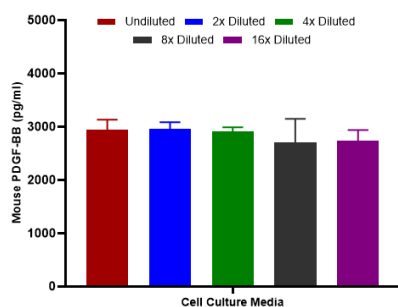


Fig6: Interpolated concentrations of spiked PDGF-BB in cell culture media samples.

Capture: HA723812, Mouse PDGF-BB Rabbit mAb [PSH16-07]
 Detector: HA723811, Mouse PDGF-BB Rabbit mAb [PSH16-06]

The concentrations of PDGF-BB were measured in duplicates, interpolated from the PDGF-BB standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Bi Q et al. Microglia-derived PDGFB promotes neuronal potassium currents to suppress basal sympathetic tonicity and limit hypertension. *Immunity*. 2022 Aug
2. Panwar V et al. COL1A1-PDGFB Fusion Associated Fibrosarcoma of the Uterine Corpus: A Case Report and Literature Review. *Int J Gynecol Pathol*. 2023 Mar

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