

Anti-Mouse Periostin Antibody [PSH20-89] - BSA and Azide free (Detector)

HA724184



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	ELISA(Det)
Clone number:	PSH20-89

Description: Periostin (POSTN, PN, or osteoblast-specific factor OSF-2) is a protein that in humans is encoded by the POSTN gene. Periostin functions as a ligand for alpha-V/beta-3 and alpha-V/beta-5 integrins to support adhesion and migration of epithelial cells. Periostin is a gla domain vitamin K dependent factor. Periostin is a secreted extracellular matrix protein that was originally identified in cells from the mesenchymal lineage (osteoblasts, osteoblast-derived cells, the periodontal ligament, and periosteum). It has been associated with the epithelial-mesenchymal transition in cancer and with the differentiation of mesenchyme in the developing heart. This protein shares a homology with fasciclin I, a secreted cell adhesion molecule found in insects.

Immunogen: Recombinant protein within Recombinant Mouse Periostin aa 24-838 (HA211398).

Positive control: Recombinant Mouse Periostin protein (HA211398).

Subcellular location: Golgi apparatus, Secreted, extracellular space, extracellular matrix.

Database links: SwissProt: Q62009 Mouse

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH20-88] to Mouse Periostin antibody (Capture) (HA724183) and Recombinant Mouse Periostin protein (HA211398) as the standard. The reference range value is 78.1-20,000 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

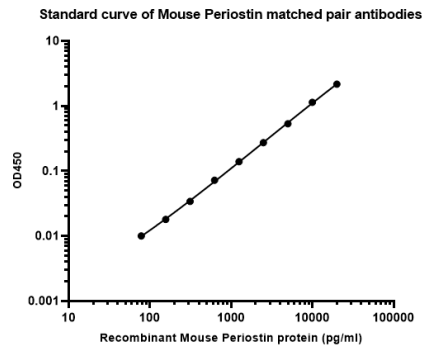
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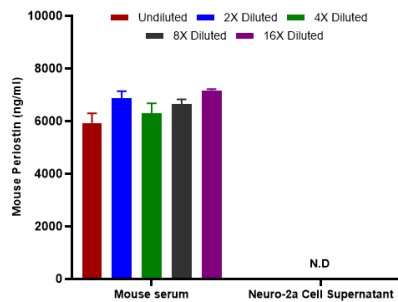
Images

Fig1: Sandwich ELISA analysis of Mouse Periostin matched pair antibodies

Capture: HA724183, Mouse Periostin Rabbit mAb [PSH20-88]
 Detector: HA724184, Mouse Periostin Rabbit mAb [PSH20-89]

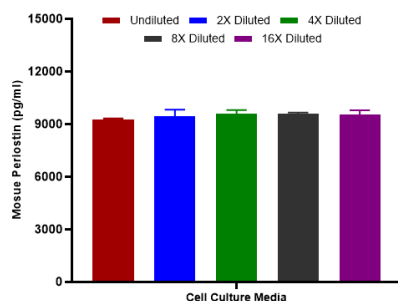


Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA724183) diluted in carbonate/bicarbonate buffer, at a concentration of 5 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Mouse Periostin protein (HA211398) starting from 20,000 pg/ml to 0 pg/ml and detect antibody (HA724184, 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: Interpolated concentrations of native Periostin in mouse serum and Neuro-2a cell culture supernatant samples.

Capture: HA724183, Mouse Periostin Rabbit mAb [PSH20-88]
 Detector: HA724184, Mouse Periostin Rabbit mAb [PSH20-89]

The concentrations of Periostin were measured in duplicates, interpolated from the Periostin standard curve and corrected for sample dilution. Undiluted samples are mouse serum 0.1% and Neuro-2a cell culture supernatant 50%. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=2). The mean Periostin concentration was determined to be 6,579 ng/ml in mouse serum and undetectable in Neuro-2a cell culture supernatant.

Fig3: Interpolated concentrations of spiked Periostin in mouse cell culture media samples.

Capture: HA724183, Mouse Periostin Rabbit mAb [PSH20-88]
 Detector: HA724184, Mouse Periostin Rabbit mAb [PSH20-89]

The concentrations of Periostin were measured in duplicates, interpolated from the Periostin standard curves and corrected for sample dilution. Diluted samples are as follows: 25% cell culture media with FBS. The interpolated dilution factor corrected values are plotted (mean \pm SD, n=2).

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

Background References

1. Sonnenberg-Riethmacher E et al. Periostin in Allergy and Inflammation. Front Immunol. 2021 Aug
2. Dorafshan S et al. Periostin: biology and function in cancer. Cancer Cell Int. 2022 Oct

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