

Anti-Human Endostatin Antibody [PSH15-83] - BSA and Azide free (Detector)

HA723790



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Clone number:	PSH15-83

Description: Endostatin is a naturally occurring, 20-kDa C-terminal fragment derived from type XVIII collagen. It is reported to serve as an anti-angiogenic agent, similar to angiostatin and thrombospondin. Endostatin is a broad-spectrum angiogenesis inhibitor and may interfere with the pro-angiogenic action of growth factors such as basic fibroblast growth factor (bFGF/FGF-2) and vascular endothelial growth factor (VEGF). A developmental disorder primarily characterized by typical eye abnormalities, including high myopia, cataracts, dislocated lens, vitreoretinal degeneration, and retinal detachment, with occipital skull defects, which can range from occipital encephalocele to occult cutis aplasia. An autosomal dominant form of primary glaucoma, an ocular disease characterized by a marked increase of intraocular pressure causing damage to eye structures and function. GLCC is characterized by elevated intraocular pressure due to iridocorneal angle closure with retention of the aqueous humor in the anterior chamber. Iridocorneal angle changes are apparent in the fourth to fifth decade of life, and patients manifest age-related variation in the severity of glaucomatous damage.

Immunogen: Recombinant protein within Human Endostatin aa 1,572-1,754 (HA211001).

Positive control: Recombinant Human Endostatin protein (HA211001).

Subcellular location: Secreted, extracellular space, extracellular matrix, basement membrane.

Database links: SwissProt: P39060 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH15-82] to Human Endostatin antibody (Capture) (HA723789) and Recombinant Human Endostatin protein (HA211001) as the standard. The reference range value is 19.5-5,000 pg/mL.

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

Storage Instruction: Store at 2-8℃. Avoid freeze.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

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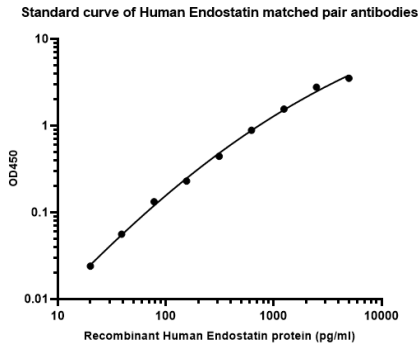
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of Human Endostatin matched pair antibodies

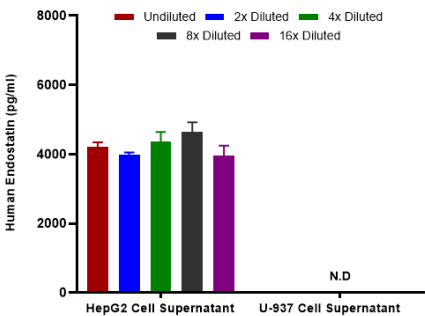
Capture: HA723789, Human Endostatin Rabbit mAb [PSH15-82]
Detector: HA723790, Human Endostatin Rabbit mAb [PSH15-83]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723789) 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 Human Endostatin protein (HA211001) starting from 5000 pg/ml to 0 pg/ml and detect antibody (HA723790, 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 Endostatin in human samples.

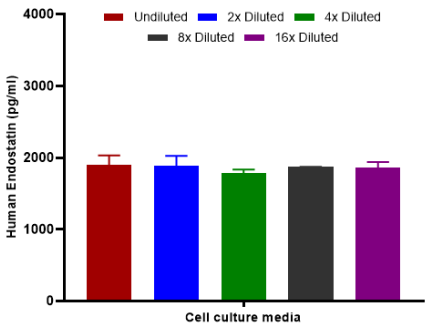
Capture: HA723789, Human Endostatin Rabbit mAb [PSH15-82]
Detector: HA723790, Human Endostatin Rabbit mAb [PSH15-83]



Interpolated concentration of native Endostatin was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean $\pm$ SD, n=2). The mean Endostatin concentration was determined to be 4,239 pg/ml in HepG2 Cell Supernatant. There was no detectable signal in U-937 cell culture supernatant.

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

Capture: HA723789, Human Endostatin Rabbit mAb [PSH15-82]
Detector: HA723790, Human Endostatin Rabbit mAb [PSH15-83]



The concentrations of Endostatin were measured in duplicates, interpolated from the Endostatin standard curves and corrected for sample dilution. Diluted samples are as follows: 50% cell culture media with FBS. The interpolated dilution factor corrected values are plotted (mean $\pm$ SD, n=2).

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

Background References

1. Li M et al. Endostatin in Renal and Cardiovascular Diseases. Kidney Dis (Basel). 2021 Sep
2. Zhang Z et al. Endostatin in fibrosis and as a potential candidate of anti-fibrotic therapy. Drug Deliv. 2021 Dec

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