

Biotin Conjugated Anti-Human Serpin A12 Antibody [PSH24-21] - Detector

HA725481B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), ELISA
Clone number:	PSH24-21

Description: Serpin A12 (OL-64, Vaspin, Visceral adipose-specific serpin, Ser A12) is a glycoprotein that is a class A member of the serine protease inhibitor (serpin) family. In humans, Serpin A12 is encoded by the SERPINA12 gene. First discovered in 2005, Serpin A12 was highly expressed in white adipose tissue of Otsuka Long Evans Tokushima Fatty Rats at the same time that the rats' obesity and insulin plasma levels reached a peak, at around 30 weeks old. Eventually, it was found to be expressed in visceral and subcutaneous adipose tissue of obese humans, leading the protein to be linked with obesity, glucose metabolism, and insulin resistance.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within Human Serpin A12 aa 21-414 (HA211482).

Positive control: Recombinant Human Serpin A12 protein (HA211482).

Subcellular location: Secreted.

Database links: SwissProt: Q8IW75 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH24-20] to Human Serpin A12 (Capture) (HA725480) and Recombinant Human Serpin A12 protein (HA211482) as the standard. The reference range value is 7.8-4,000 pg/mL.

ELISA Use at an assay dependent concentration.

Storage Buffer: 1*PBS (pH7.4), 0.1% BSA, 40% Glycerol, 0.05% Proclean 300.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C long term.

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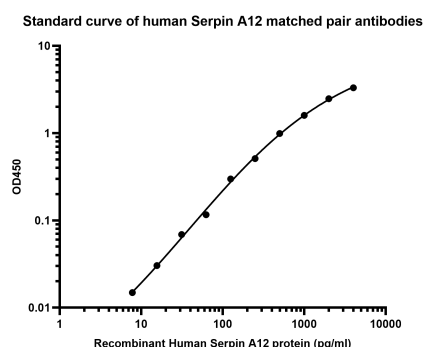
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

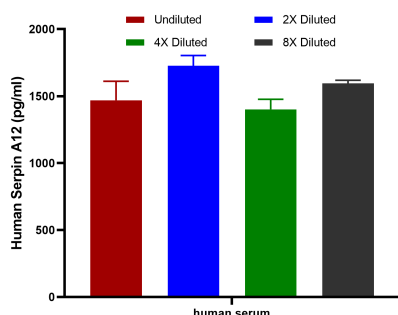
Fig1: Sandwich ELISA analysis of Human Serpin A12 matched pair antibodies

Capture: HA725480, Human Serpin A12 Rabbit mAb [PSH24-20]

Detector: HA725481, Human Serpin A12 Rabbit mAb [PSH24-21]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725480) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4°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 Serpin A12 protein (HA211482) starting from 4,000 pg/ml to 0 pg/ml and detect antibody (HA725481, Biotin, 0.2 μ g/ml) for 1 hour at 30°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°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 Serpin A12 in human serum samples.

Capture: HA725480, Human Serpin A12 Rabbit mAb [PSH24-20]

Detector: HA725481, Human Serpin A12 Rabbit mAb [PSH24-21]

The concentrations of Serpin A12 were measured in duplicates, interpolated from the Serpin A12 standard curve and corrected for sample dilution. Undiluted samples are human serum 25%. The interpolated dilution factor corrected values are plotted (mean $\pm$ SD, n=2). The mean Serpin A12 concentration was determined to be 1,548 pg/ml in human serum.

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

Background References

1. Salek Maghsoudi A et al. An Electrochemical Aptasensor Platform Based on Flower-Like Gold Microstructure-Modified Screen-Printed Carbon Electrode for Detection of Serpin A12 as a Type 2 Diabetes Biomarker. Int J Nanomedicine. 2020 Mar
2. Yu H et al. SERPINA12 promotes the tumorigenic capacity of HCC stem cells through hyperactivation of AKT/beta-catenin signaling. Hepatology. 2023 Dec

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