

Biotin Conjugated Anti-Human ANGPTL3 Antibody [PSH17-40] - Detector

HA725081B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), ELISA
Clone number:	PSH17-40

Description: Angiopoietin-like 3, also known as ANGPTL3, is a protein that in humans is encoded by the ANGPTL3 gene. The protein encoded by this gene is a member of the angiopoietin-like family of secreted factors. It is expressed predominantly in the liver, and has the characteristic structure of angiopoietins, consisting of a signal peptide, N-terminal coiled-coil domain, and the C-terminal fibrinogen (FBN)-like domain. The FBN-like domain in angiopoietin-like 3 protein was shown to bind alpha-5/beta-3 integrins, and this binding induced endothelial cell adhesion and migration. This protein may also play a role in the regulation of angiogenesis.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within Human ANGPTL3 aa 17-460 (HA211029).

Positive control: Recombinant Human ANGPTL3 protein (HA211029).

Subcellular location: Secreted, Cell projection, lamellipodium.

Database links: SwissProt: Q9Y5C1 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH17-39] to Human ANGPTL3 antibody (Capture) (HA725079) and Recombinant Human ANGPTL3 protein (HA211029) as the standard. The reference range value is 195.3-25,000 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℃. Store at +4℃ short term (1-2 weeks). Store at -20℃ long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

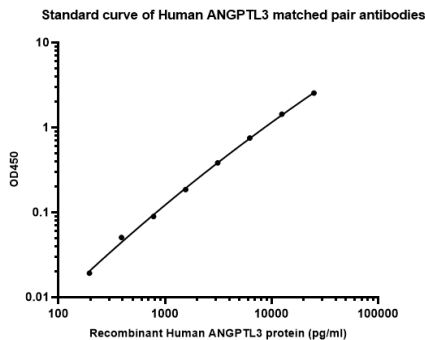
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

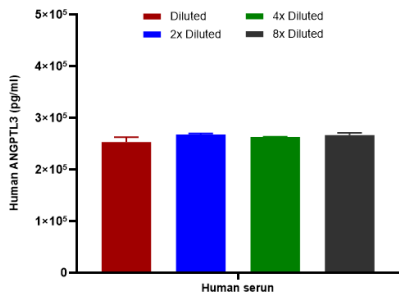
Fig1: Sandwich ELISA analysis of Human ANGPTL3 matched pair antibodies

Capture: HA725079, Human ANGPTL3 Rabbit mAb [PSH17-39]
Detector: HA725080, Human ANGPTL3 Rabbit mAb [PSH17-40]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA725079) 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 Human ANGPTL3 protein (HA211029) protein starting from 25,000 pg/ml to 0 pg/ml and detect antibody (HA725080, 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 ANGPTL3 in Human serum.



Capture: HA725079, Human ANGPTL3 Rabbit mAb [PSH17-39]
Detector: HA725080, Human ANGPTL3 Rabbit mAb [PSH17-40]

Interpolated concentration of native ANGPTL3 was measured in duplicate at different sample concentrations and interpolated from the ANGPTL3 standard curves. The interpolated dilution factor corrected values were plotted (mean $\pm$ SD, n=2). The mean ANGPTL3 concentration was determined to be 262,537 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. Mohamed F et al. ANGPTL3 as a Drug Target in Hyperlipidemia and Atherosclerosis. Curr Atheroscler Rep. 2022 Dec
2. Luo F et al. ANGPTL3 inhibition, dyslipidemia, and cardiovascular diseases. Trends Cardiovasc Med. 2023 Feb

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