

# Biotin Conjugated Anti-Human ICAM3 Antibody [PSH20-70] - Detector

## HA724168B



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Det), ELISA
<b>Clone number:</b>	PSH20-70

**Description:** Intercellular adhesion molecule 3 (ICAM3) also known as CD50 (Cluster of Differentiation 50), is a protein that in humans is encoded by the ICAM3 gene. The protein is constitutively expressed on the surface of leukocytes, which are also called white blood cells and are part of the immune system. ICAM3 mediates adhesion between cells by binding to specific integrin receptors. It plays an important role in the immune cell response through its facilitation of interactions between T cells and dendritic cells, which allows for T cell activation. ICAM3 also mediates the clearance of cells undergoing apoptosis by attracting and binding macrophages, a type of cell that breaks down infected or dying cells through a process known as phagocytosis, to apoptotic cells.

**Conjugate:** Biotin-conjugated

**Immunogen:** Recombinant protein within Human ICAM3 aa 30-485 (HA211145).

**Positive control:** Recombinant Human ICAM3 protein (HA211145).

**Subcellular location:** Membrane.

**Database links:** SwissProt: P32942 Human

**Recommended Dilutions:**

**ELISA(Det)** Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH20-69] to Human ICAM3 antibody (Capture) (HA724167) and Recombinant Human ICAM3 protein (HA211145) as the standard. The reference range value is 78.1-10,000 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). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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Technical:0086-571-89986345

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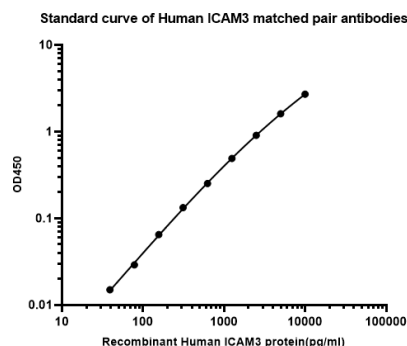
  
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## Images

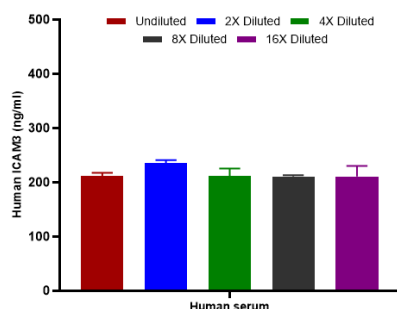
**Fig1:** Sandwich ELISA analysis of Human ICAM3 matched pair antibodies

Capture: HA724167, Human ICAM3 Rabbit mAb [PSH20-69]

Detector: HA724168, Human ICAM3 Rabbit mAb [PSH20-70]



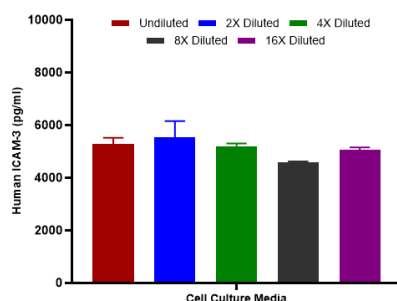
Elisa assay was performed by coating wells of a 96-well plate with 100  $\mu$ l per well of capture antibody (HA724167) diluted in carbonate/bicarbonate buffer, at a concentration of 2  $\mu$ g/mL overnight at 4°C. Wells of the plate were washed, blocked with 150  $\mu$ l 0.2% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human ICAM3 protein (HA211145) starting from 10,000 pg/ml to 0 pg/ml and detect antibody (HA724168, Biotin, 0.2  $\mu$ g/ml) for 1 hour at 30°C with shaking. Then the plate was washed and incubated with 100  $\mu$ 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 ICAM-3 in human serum samples.

Capture: HA724167, Human ICAM3 Rabbit mAb [PSH20-69]

Detector: HA724168, Human ICAM3 Rabbit mAb [PSH20-70]

The concentrations of ICAM-3 were measured in duplicates, interpolated from the ICAM-3 standard curve and corrected for sample dilution. Undiluted samples are human serum 2%. The interpolated dilution factor corrected values are plotted (mean  $\pm$  SD, n=2). The mean ICAM-3 concentration was determined to be 216 ng/ml in human serum.

**Fig3:** Interpolated concentrations of spiked ICAM-3 in human cell culture media samples.

Capture: HA724167, Human ICAM3 Rabbit mAb [PSH20-69]

Detector: HA724168, Human ICAM3 Rabbit mAb [PSH20-70]

The concentrations of ICAM-3 were measured in duplicates, interpolated from the ICAM-3 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).

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

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### Background References

1. Li L et al. Functional evaluation of various ICAM3 transcript variants in diffuse large B-Cell lymphoma. *Leuk Lymphoma*. 2022 Dec
2. Zicheng H et al. Association of Circulating ICAM3 Concentrations with Severity and Short-term Outcomes of Acute Ischemic Stroke. *Neurotox Res*. 2021 Aug

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