

Anti-Human CD85d Antibody [PSH05-62] - BSA and Azide free (Detector)

HA722382



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Clone number:	PSH05-62

Description: Receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles. Involved in the down-regulation of the immune response and the development of tolerance. Recognizes HLA-G in complex with B2M/beta-2 microglobulin and a nonamer self-peptide (peptide-bound HLA-G-B2M) triggering differentiation of type 1 regulatory T cells and myeloid-derived suppressor cells, both of which actively maintain maternal-fetal tolerance. Competes with CD8A for binding to class I MHC antigens. Inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

Immunogen: Recombinant protein within human CD85d aa 22-460 (Extracellular).

Positive control: Recombinant standard Human CD85d protein (HA210643).

Subcellular location: Cell membrane.

Database links: SwissProt: Q8N423 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH05-61] to Human CD85d (Capture) (HA722381) and recombinant standard Human CD85d protein (HA210643). The reference range value is 61.7-15000 pg/ml.

Storage Buffer: 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.

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Orders:0086-571-88062880

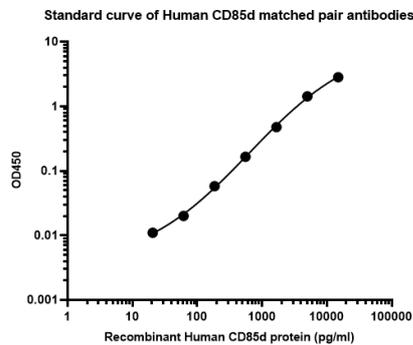
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Images

Fig1: Sandwich ELISA analysis of human CD85d matched pair antibodies



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA722381) 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 standard Human CD85d protein (HA210643) starting from 15000 pg/ml to 0 pg/ml and detect antibody (HA722382, 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.

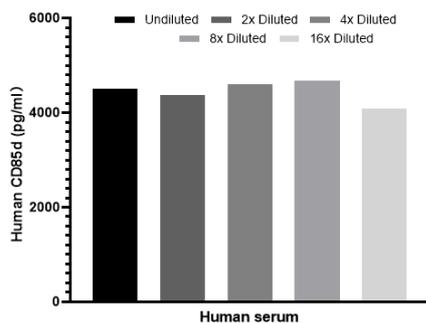


Fig2: Interpolated concentrations of native CD85d in human serum samples.

The concentrations of CD85d were interpolated from the CD85d standard curves and corrected for sample dilution. Undiluted samples are serum 100%. The mean CD85d concentration was determined to be 4448 pg/mL in human serum.

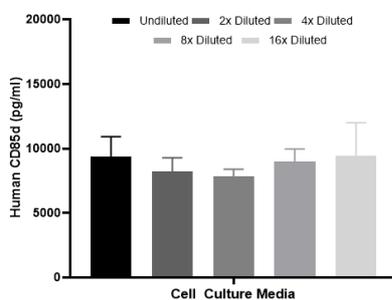


Fig3: Interpolated concentrations of spiked CD85d in human cell culture media samples.

The concentrations of CD85d were measured in duplicates, interpolated from the CD85d standard curves and corrected for sample dilution. Undiluted samples are as follows: cell culture media 50%. 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. Koestlin N., Ostermeir A.L., Spring B., Schwarz J., Marme A., Walter C.B., Poets C.F., Gille C. HLA-G promotes myeloid-derived suppressor cell accumulation and suppressive activity during human pregnancy through engagement of the receptor ILT4. *Eur. J. Immunol.* 47:374-384 (2017).
2. Gregori S., Tomasoni D., Pacciani V., Scirpoli M., Battaglia M., Magnani C.F., Hauben E., Roncarolo M.G.. Differentiation of type 1 T regulatory cells (Tr1) by tolerogenic DC-10 requires the IL-10-dependent ILT4/HLA-G pathway. *Blood* 116:935-944 (2010).

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