

## Anti-Human ICOSLG/B7-H2/CD275 Antibody [PSH11-32] - BSA and Azide free (Capture)

# HA723317



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Cap)
<b>Clone number:</b>	PSH11-32

**Description:** Ligand for the T-cell-specific cell surface receptor ICOS. Acts as a costimulatory signal for T-cell proliferation and cytokine secretion. Also induces B-cell proliferation and differentiation into plasma cells. Could play an important role in mediating local tissue responses to inflammatory conditions, as well as in modulating the secondary immune response by co-stimulating memory T-cell function. In endothelial cells, required for proper neutrophil transmigration in response to chemoattractants, such as CXCL8/IL8 or N-formyl-methionyl peptides. An autosomal recessive immunologic disorder characterized by childhood-onset of recurrent respiratory tract infections, susceptibility to chronic DNA-based viral infections, hypogammaglobulinemia, and panlymphopenia.

**Immunogen:** Recombinant protein within Human ICOSLG/B7-H2/CD275 aa 19-256 (HA210593).

**Positive control:** Recombinant Human ICOSLG/B7-H2/CD275 protein (HA210593).

**Subcellular location:** Cell membrane.

**Database links:** SwissProt: O75144 Human

**Recommended Dilutions:**

**ELISA(Cap)** Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH11-33] to Human ICOSLG/B7-H2/CD275 antibody (Detector) (HA723318) and Recombinant Human Human ICOSLG/B7-H2/CD275 protein (HA210593) as the standard. The reference range value is 15.6-2,000 pg/mL.

**Storage Buffer:** 1\*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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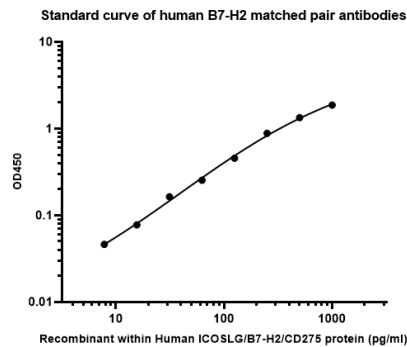
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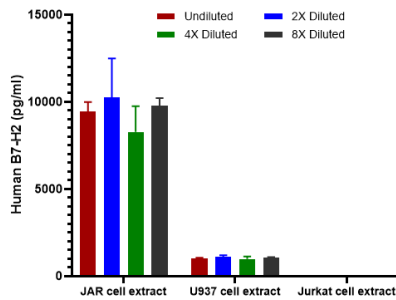
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## Images



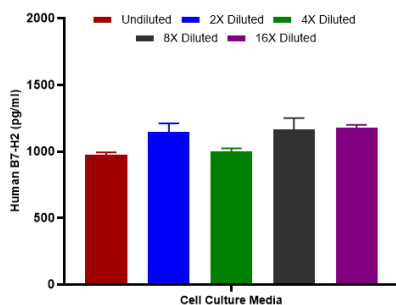
**Fig1:** Sandwich ELISA analysis of human B7-H2 matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 50  $\mu$ l per well of capture antibody (HA723317) diluted in carbonate/bicarbonate buffer, at a concentration of 1  $\mu$ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150  $\mu$ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human ICOSLG/B7-H2/CD275 protein (HA210593) starting from 1,000 pg/ml to 0 pg/ml and detect antibody (HA723318, Biotin, 0.1  $\mu$ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50  $\mu$ 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 B7-H2 in JAR, U937 and Jurkat extract samples based on a 1,000  $\mu$ g/ml extract load.

The concentrations of B7-H2 were measured in duplicates, interpolated from the B7-H2 standard curve and corrected for sample dilution. Undiluted samples are JAR extract 2.5%, U937 extract 100% and Jurkat extract 100%. The interpolated dilution factor corrected values are plotted (mean  $\pm$  SD, n=2). The mean B7-H2 concentration was determined to be 9,435 pg/ml in JAR extract, 1,040 pg/ml in U937 extract and undetectable in Jurkat extract.



**Fig3:** Interpolated concentrations of spiked B7-H2 in human cell culture media samples.

The concentrations of B7-H2 were measured in duplicates, interpolated from the B7-H2 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".

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### Background References

1. Yoshinaga S.K., Zhang M., Pistillo J., Horan T., Khare S.D., Miner K., Sonnenberg M., Boone T., Brankow D. Characterization of a new human B7-related protein: B7RP-1 is the ligand to the co-stimulatory protein ICOS. *Int. Immunol.* 12:1439-1447 (2000)
2. Roussel L., Landekic M., Golizeh M., Gavino C., Zhong M.C., Chen J., Faubert D., Blanchet-Cohen A., Dansereau L. Loss of human ICOSL results in combined immunodeficiency. *J. Exp. Med.* 215:3151-3164 (2018)

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