

Biotin Conjugated Anti-Human IL-10RB Antibody [PSH17-45] - Detector

HA725296B



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det), ELISA
Clone number:	PSH17-45

Description: Interleukin 10 receptor, beta subunit is a subunit for the interleukin-10 receptor. IL10RB is its human gene. IL10RB has also been designated CDw210b (cluster of differentiation w210b). The protein encoded by this gene belongs to the cytokine receptor family. It is an accessory chain essential for the active interleukin 10 receptor complex. Coexpression of this and IL10RA proteins has been shown to be required for IL10-induced signal transduction. This gene and three other interferon receptor genes, IFNAR2, IFNAR1, and IFNGR2, form a class II cytokine receptor gene cluster located in a small region on chromosome 21.

Conjugate: Biotin-conjugated

Immunogen: Recombinant protein within Human IL-10RB aa 20-220 (HA211205).

Positive control: Recombinant Human IL-10RB protein (HA211205).

Subcellular location: Membrane.

Database links: SwissProt: Q08334 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH17-44] to Human IL-10RB antibody (Capture) (HA725295) and Recombinant Human IL-10RB protein (HA211205) as the standard. The reference range value is 19.5-10,000 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℃. 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

Service mail:support@huabio.cn

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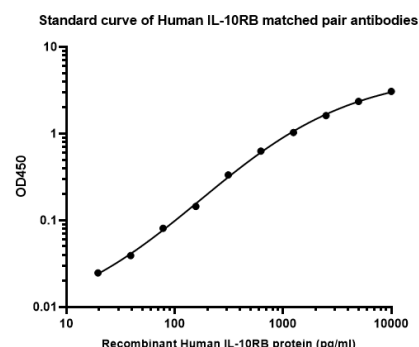
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

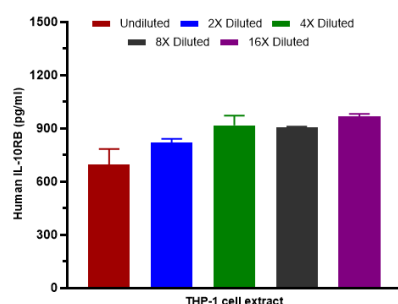
Fig1: Sandwich ELISA analysis of Human IL-10RB matched pair antibodies

Capture: HA725295, Human IL-10RB Rabbit mAb [PSH17-44]

Detector: HA725296, Human IL-10RB Rabbit mAb [PSH17-45]



Elisa assay was performed by coating wells of a 96-well plate with 50 μ l per well of capture antibody HA725295 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 IL-10RB (HA211205) protein starting from 10,000 pg/ml to 0 pg/ml and detect antibody (HA725296, Biotin, 0.2 μ g/ml) for 1 hour at 30°C with shaking. Then the plate was washed and incubated with 50 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 IL-10RB in THP-1 cell extract:

Capture: HA725295, Human IL-10RB Rabbit mAb [PSH17-44]

Detector: HA725296, Human IL-10RB Rabbit mAb [PSH17-45]

The concentrations of IL-10RB were measured in duplicates, interpolated from the IL-10RB standard curve and corrected for sample dilution. Undiluted samples are THP-1 cell extract 250 μ g/mL. The interpolated dilution factor corrected values are plotted (mean $\pm$ SD, n=2). The mean IL-10RB concentration was determined to be 861.6 pg/ml in THP-1 cell extract.

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

Background References

- Voloudakis G et al. IL10RB as a key regulator of COVID-19 host susceptibility and severity. medRxiv. 2021 Jun
- Yazdani R et al. Candidiasis associated with very early onset inflammatory bowel disease: First IL10RB deficient case from the National Iranian Registry and review of the literature. Clin Immunol. 2019 Aug

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