Anti-IL-10RB Antibody [PSH19-60] - BSA and Azide free

HA751723

Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, FC
Molecular Wt:	Predicted band size: 37 kDa
Clone number:	PSH19-60

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.

Immunogen: Recombinant protein within human IL-10RB aa 1-220.

Positive control: THP-1 cell lysate, HDLM-2 cell lysate, HUVEC cell lysate, THP-1.

Subcellular location: Membrane.

Database links: SwissProt: Q08334 Human

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at 2-8℃. Avoid freeze.

Purity: Protein A affinity purified.

Images

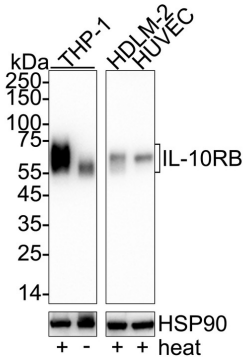

Fig1: This data was developed using HA724086, the same antibody clone in a different buffer formulation.
Western blot analysis of IL-10RB on different lysates with Rabbit anti-IL-10RB antibody (HA724086) at 1/5,000 dilution.

Lane 1: THP-1 cell lysate
Lane 2: THP-1 cell lysate (no heat)
Lane 3: HDLM-2 cell lysate
Lane 4: HUVEC cell lysate

Notice: no heat means the lysate is not boiled.

Lysates/proteins at 20 µg/Lane.

Predicted band size: 37 kDa
Observed band size: 55-75 kDa

Exposure time: 40 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724086) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

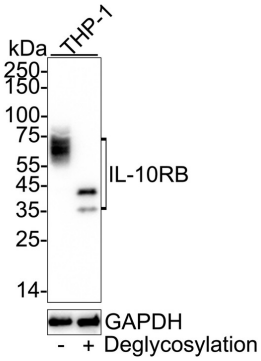

Fig2: This data was developed using HA724086, the same antibody clone in a different buffer formulation.
Western blot analysis of IL-10RB on different lysates with Rabbit anti-IL-10RB antibody (HA724086) at 1/5,000 dilution.

Lane 1: THP-1 cell lysate
Lane 2: THP-1 cell lysate treated with deglycosylation

Lysates/proteins at 20 µg/Lane.

Predicted band size: 37 kDa
Observed band size: 35-75 kDa

Exposure time: 25 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA724086) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4℃ overnight. Goat Anti-Rabbit IgG -

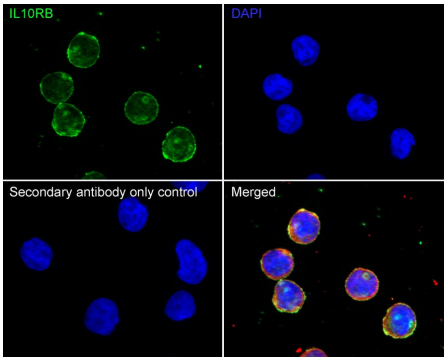

Fig3: This data was developed using HA724086, the same antibody clone in a different buffer formulation.
Immunocytochemistry analysis of THP-1 cells labeling IL-10RB with Rabbit anti-IL-10RB antibody (HA724086) at 1/500 dilution.

Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-IL-10RB antibody (HA724086) at 1/500 dilution in 1% BSA in PBST overnight at 4 ℃. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4℃. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

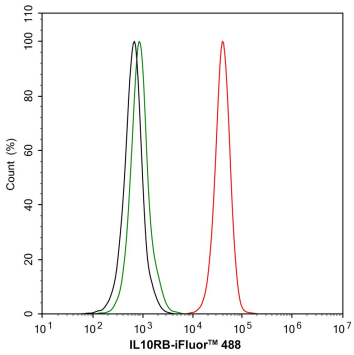

Fig4: This data was developed using HA724086, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of THP-1 cells labeling IL-10RB.

Cells were washed twice with cold PBS and resuspend. Then stained with the primary antibody (HA724086, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4℃ for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4℃. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

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

Background References

1. Voloudakis G et al. IL10RB as a key regulator of COVID-19 host susceptibility and severity. medRxiv. 2021 Jun
2. 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