

Anti-Human IL3RA/CD123 Antibody [PSH11-58] - BSA and Azide free (Detector)

HA723352



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Det)
Clone number:	PSH11-58

Description: The protein encoded by this gene is an interleukin 3 specific subunit of a heterodimeric cytokine receptor. The receptor is comprised of a ligand specific alpha subunit and a signal transducing beta subunit shared by the receptors for interleukin 3 (IL3), colony stimulating factor 2 (CSF2/GM-CSF), and interleukin 5 (IL5). The binding of this protein to IL3 depends on the beta subunit. The beta subunit is activated by the ligand binding, and is required for the biological activities of IL3. This gene and the gene encoding the colony stimulating factor 2 receptor alpha chain (CSF2RA) form a cytokine receptor gene cluster in a X-Y pseudoautosomal region on chromosomes X or Y. Alternatively spliced transcript variants encoding distinct isoforms have been found.

Immunogen: Recombinant protein within Human IL3RA/CD123 aa 19-305 (HA211048).

Positive control: Recombinant Human IL3RA/CD123 protein (HA211048).

Subcellular location: Membrane.

Database links: SwissProt: P26951 Human

Recommended Dilutions:

ELISA(Det) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH11-57] to Human IL3RA/CD123 antibody (Capture) (HA723351) and Recombinant Human IL3RA/CD123 protein (HA211048) as the standard. The reference range value is 0.625-20 ng/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

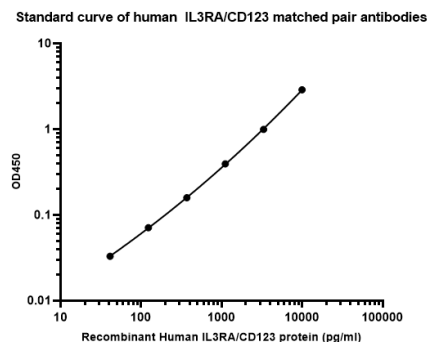
Technical: 0086-571-89986345

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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 CD123 matched pair antibodies

Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA723351) diluted in carbonate/bicarbonate buffer, at a concentration of 5ug/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 Human IL3RA/CD123 protein (HA211048) starting from 10,000 pg/ml to 0 pg/ml and detect antibody (HA723352, 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.

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

Background References

1. Huang S., Chen Z., Yu J.F., Young D., Bashey A., Ho A.D., Law P. Correlation between IL-3 receptor expression and growth potential of human CD34+ hematopoietic cells from different tissues. *Stem Cells* 17:265-272 (1999)
2. Broughton S.E., Hercus T.R., Nero T.L., Kan W.L., Barry E.F., Dottore M., Cheung Tung Shing K.S., Morton C.J., Dhagat U., Parker M.W. A dual role for the N-terminal domain of the IL-3 receptor in cell signalling. *Nat. Commun.* 9:386-386 (2018)

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