

Anti-Mouse IL-13 Antibody [PSH02-04] - BSA and Azide free (Capture)

HA721784



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse
Applications:	ELISA(Cap)
Molecular Wt:	Predicted band size: 14 kDa
Clone number:	PSH02-04

Description: Cytokine that plays important roles in allergic inflammation and immune response to parasite infection. Synergizes with IL2 in regulating interferon-gamma synthesis. Stimulates B-cell proliferation, and activation of eosinophils, basophils, and mast cells. Plays an important role in controlling IL33 activity by modulating the production of transmembrane and soluble forms of interleukin-1 receptor-like 1/IL1RL1. Displays the capacity to antagonize Th1-driven proinflammatory immune response and downregulates synthesis of many proinflammatory cytokines including IL1, IL6, IL10, IL12 and TNF-alpha through a mechanism that partially involves suppression of NF-kappa-B. Functions also on nonhematopoietic cells, including endothelial cells where it induces vascular cell adhesion protein 1/VCAM1, which is important in the recruitment of eosinophils. Exerts its biological effects through its receptors which comprises the IL4R chain and the IL13RA1 chain, to activate JAK1 and TYK2, leading to the activation of STAT6. Aside from IL13RA1, another receptor IL13RA2 acts as a high affinity decoy for IL13 and mediates internalization and depletion of extracellular IL13.

Immunogen: Recombinant protein within Mouse IL-13 aa 19-131 (P20109).

Positive control: Recombinant Mouse IL-13 protein.

Subcellular location: Secreted

Database links: SwissProt: P20109 Mouse

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH02-05] to Mouse IL-13 (Detector) (HA721785). The reference range value is 1.37-1000pg/ml.

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

Technical:0086-571-89986345

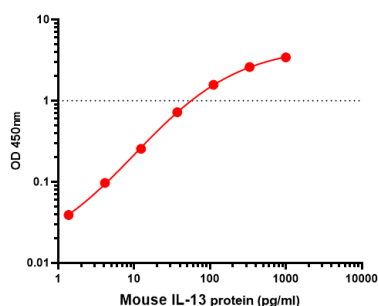
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Standard curve of Mouse IL-13 matched pair antibodies

**Fig1:** Sandwich ELISA analysis of Mouse IL-13 matched pair antibodies.

Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA721784) diluted in carbonate/bicarbonate buffer, at a concentration of 2 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 Mouse IL-13 protein starting from 1000 pg/ml to 0 pg/ml and detect antibody [PSH02-05]-Biotin 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. Finkelman F.D., Shea-Donohue T., Morris S.C., Gildea L., Strait R., Madden K.B., Schopf L., Urban J.F. Jr. Interleukin-4- and interleukin-13-mediated host protection against intestinal nematode parasites. *Immunol. Rev.* 201:139-155 (2004)
2. Mayer J.U., Hilligan K.L., Chandler J.S., Eccles D.A., Old S.I., Domingues R.G., Homeostatic IL-13 in healthy skin directs dendritic cell differentiation to promote TH2 and inhibit TH17 cell polarization. *Nat. Immunol.* 22:1538-1550 (2021)

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