

# Biotin Conjugated Anti-Mouse IL-17A Antibody [PS01-92] - Detector

## HA721608



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	ELISA(Det), ELISA
<b>Clone number:</b>	PS01-92

**Description:** Effector cytokine of innate and adaptive immune system involved in antimicrobial host defense and maintenance of tissue integrity. Signals via IL17RA-IL17RC heterodimeric receptor complex, triggering homotypic interaction of IL17RA and IL17RC chains with TRAF3IP2 adapter. This leads to downstream TRAF6-mediated activation of NF-kappa-B and MAPkinase pathways ultimately resulting in transcriptional activation of cytokines, chemokines, antimicrobial peptides and matrix metalloproteinases, with potential strong immune inflammation. Plays an important role in connecting T cell-mediated adaptive immunity and acute inflammatory response to destroy extracellular bacteria and fungi. As a signature effector cytokine of T-helper 17 cells (Th17), primarily induces neutrophil activation and recruitment at infection and inflammatory sites. In airway epithelium, mediates neutrophil chemotaxis via induction of CXCL1 and CXCL5 chemokines. In secondary lymphoid organs, contributes to germinal center formation by regulating the chemotactic response of B cells to CXCL12 and CXCL13, enhancing retention of B cells within the germinal centers, B cell somatic hypermutation rate and selection toward plasma cells. Effector cytokine of a subset of gamma-delta T cells that functions as part of an inflammatory circuit downstream IL1B, TLR2 and IL23A-IL12B to promote neutrophil recruitment for efficient bacterial clearance.

<b>Conjugate:</b>	Biotin-conjugated
<b>Immunogen:</b>	Recombinant protein within mouse IL17A aa 26-158 (HA210791).
<b>Positive control:</b>	Recombinant Mouse IL-17A protein (HA210791).
<b>Subcellular location:</b>	Secreted.
<b>Database links:</b>	SwissProt: Q62386 Mouse Entrez Gene: 16171 Mouse

### Recommended Dilutions:

<b>ELISA(Det)</b>	Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PS01-91] to Mouse IL-17A antibody (Capture) (HA721606) and Recombinant Mouse IL-17A protein (HA210791) as the standard. The reference range value is 7.81-1,000 pg/mL.
<b>ELISA</b>	Use at an assay dependent concentration.

<b>Storage Buffer:</b>	PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% ProClin300.
<b>Storage Instruction:</b>	Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.
<b>Purity:</b>	Protein A affinity purified.

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Technical:0086-571-89986345

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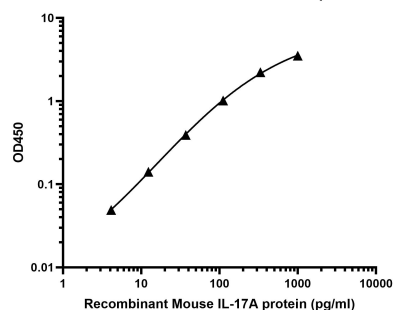
## Images

**Fig1:** Sandwich ELISA analysis of Mouse IL-17A matched pair antibodies

Capture: HA721606, Mouse IL-17A Rabbit mAb [PS01-91]

Detector: HA721607, Mouse IL-17A Rabbit mAb [PS01-92]

Standard curve of Mouse IL-17A matched pair antibodies



Elisa assay was performed by coating wells of a 96-well plate with 100  $\mu$ l per well of capture antibody (HA721606) diluted in carbonate/bicarbonate buffer, at a concentration of 2  $\mu$ g/mL overnight at 4°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 Mouse IL-17A protein (HA210791) protein starting from 800 pg/ml to 0 pg/ml and detect antibody (HA721607, Biotin, 0.2  $\mu$ g/ml) for 1 hour at 30°C with shaking. Then the plate was washed and incubated with 100  $\mu$ 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.

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

## Background References

1. Liang S.C., Long A.J., Bennett F., Whitters M.J., Karim R., Collins M., Goldman S.J., Dunussi-Joannopoulos K., Williams C.M., Wright J.F., Fouser L.A. An IL-17F/A heterodimer protein is produced by mouse Th17 cells and induces airway neutrophil recruitment. *J. Immunol.* 179:7791-7799 (2007).
2. Kuestner R.E., Taft D.W., Haran A., Brandt C.S., Brender T., Lum K., Harder B., Okada S., Ostrander C.D., Kreindler J.L., Aujla S.J. Identification of the IL-17 receptor related molecule IL-17RC as the receptor for IL-17F. *J. Immunol.* 179:5462-5473 (2007).

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