

## Anti-Human IL-17A Antibody [PS01-24] - BSA and Azide free (Detector)

# HA721233



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	ELISA(Det)
<b>Molecular Wt:</b>	Predicted band size: 17.5 kDa
<b>Clone number:</b>	PS01-24

**Description:** Effector cytokine of innate and adaptive immune system involved in antimicrobial host defense and maintenance of tissue integrity. 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. Effector cytokine of innate immune cells including invariant natural killer cell (iNKT) and group 3 innate lymphoid cells that mediate initial neutrophilic inflammation. Involved in the maintenance of the integrity of epithelial barriers during homeostasis and pathogen infection.

**Immunogen:** Recombinant full length protein.

**Positive control:** Recombinant IL-17A protein.

**Subcellular location:** Secreted.

**Database links:** SwissProt: Q16552 Human

**Recommended Dilutions:**  
**ELISA(Det)** Use at an assay dependent concentration.

**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.

### Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

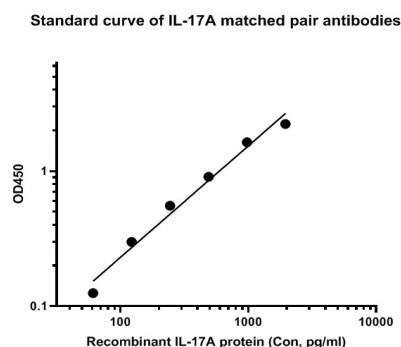
Technical:0086-571-89986345

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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 IL-17A matched pair antibodies. Elisa assay was performed by coating wells of a 96-well plate with 50  $\mu$ l per well of capture antibody HA721232 [PS01-20] diluted in carbonate/bicarbonate buffer, at a concentration of 4  $\mu$ g/mL overnight at 4°C. Wells of the plate were washed, blocked with 150  $\mu$ l 1% BSA/PBST blocking buffer, and incubated with serial diluted Recombinant IL-17A protein (HA210731) starting from 2,000 pg/ml to 30.5 pg/ml for 1 hour at 37°C. The plate was washed and incubated with 50  $\mu$ l per well of detect antibody HA721233 [PS01-24] (Biotin, 1/2,000) for 1 hour at 37°C. Then the plate was washed and incubated with 50  $\mu$ l per well of Streptavidin-HRP for 0.5 hour at 37°C. 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.

Capture/detect antibodies, Recombinant IL-17A protein, Streptavidin-HRP are diluted in 1% BSA/PBST.

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

## Background References

1. Boisson B., Wang C., Pedergrana V., Wu L., Cypowyj S., Rybojad M., Belkadi A., Picard C., Abel L., Fieschi C., Puel A., Li X., Casanova J.L. An ACT1 mutation selectively abolishes interleukin-17 responses in humans with chronic mucocutaneous candidiasis. *Immunity* 39:676-686 (2013)
2. Liu C., Qian W., Qian Y., Giltiay N.V., Lu Y., Swaidani S., Misra S., Deng L., Chen Z.J., Li X. Act1, a U-box E3 ubiquitin ligase for IL-17 signaling. *Sci. Signal.* 2:ra63-ra63 (2009)

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