# Human/Primate IL-17/IL-17A Antibody

Monoclonal Mouse $IgG_{2B}$ Clone # 41809

Catalog Number: MAB317

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human/Primate |
| **Specificity** | Detects human and primate IL-17 in direct ELISAs. In direct ELISAs, approximately 12% cross-reactivity with recombinant canine IL-17 is observed and 25%-50% reactivity with recombinant human (rh) IL-17A/IL-17F heterodimer is observed. No cross-reactivity with recombinant mouse IL-17, rhIL-17B, rhIL-17C, rhIL-17D, rhIL-17E, or rhIL-17F is observed. |
| **Source** | Monoclonal Mouse $IgG_{2B}$ Clone # 41809 |
| **Purification** | Protein A or G purified from ascites |
| **Immunogen** | *E. coli*-derived recombinant human IL-17<br>Ile20-Ala155<br>Accession # Q16552 |
| **Endotoxin Level** | <0.10 EU per 1 µg of the antibody by the LAL method. |
| **Formulation** | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

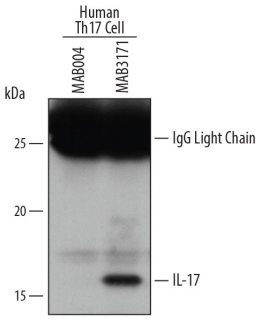
## APPLICATIONS

**Please Note:** *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

| | Recommended Concentration | Sample |
|---|---|---|
| **Immunoprecipitation** | 3 µg/100 µg cell lysate | See Below |
| ***Human/Primate IL-17 Sandwich Immunoassay*** | | **Reagent** |
| **ELISA Capture** | 2-8 µg/mL | Human/Primate IL-17/IL-17A Antibody (Catalog # MAB317) |
| **ELISA Detection** | 0.1-0.4 µg/mL | Human/Primate IL-17/IL-17A Biotinylated Antibody (Catalog # BAF317) |
| **Standard** | | Recombinant Human IL-17/IL-17A (Catalog # 317-ILB) |
| **Neutralization** | Measured by its ability to neutralize IL-17-induced IL-6 secretion in the NIH-3T3 mouse embryonic fibroblast cell line. Yao, Z. *et al.* (1995) Immunity **3**:811. The Neutralization Dose ($ND_{50}$) is typically 1-3 µg/mL in the presence of 15 ng/mL Recombinant Human IL-17. | |

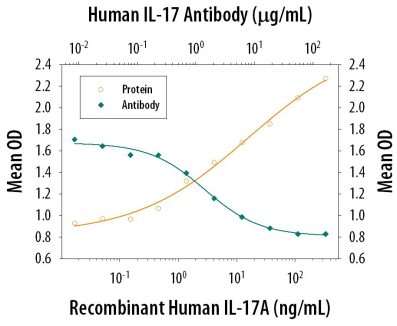
## DATA

### Immunoprecipitation




**Immunoprecipitation of Human IL-17.** Human IL-17 was immunoprecipitated from 100 µg of human primary differentiated Th17 cell lysate following incubation with 3 µg Mouse Anti-Human/Primate IL-17 Monoclonal Antibody (Catalog # MAB317) or isotype control antibody (Catalog # MAB004) overnight at 4 °C. IL-17-antibody complexes were absorbed using anti-mouse agarose beads. Immunoprecipitated IL-17 was detected by Western blot using 1 µg/mL Goat Anti-Human IL-17 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-317-NA). View our recommended buffer recipes for immunoprecipitation.

### Neutralization




**IL-6 Secretion Induced by IL-17 and Neutralization by Human IL-17 Antibody.** Recombinant Human IL-17 (Catalog # 317-ILB) stimulates IL-6 secretion in the NIH-3T3 mouse embryonic fibroblast cell line in a dose-dependent manner (orange line), as measured by the Mouse IL-6 Quantikine ELISA Kit (Catalog # M6000B). IL-6 secretion elicited by Recombinant Human IL-17 (15 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human/Primate IL-17 Monoclonal Antibody (Catalog # MAB317). The $ND_{50}$ is typically 1-3 µg/mL.

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| **Stability & Storage** | **Use a manual defrost freezer and avoid repeated freeze-thaw cycles.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

## BACKGROUND

IL-17 is a pro-inflammatory cytokine secreted by activated T cells. It is the prototype member of the IL-17 family that also includes IL-17B, C, D, E, and F.



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