

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-17 in direct ELISAs. In direct ELISAs, approximately 40% cross-reactivity with recombinant human (rh) IL-17A/IL-17F heterodimer is observed. No cross-reactivity with recombinant mouse IL-17, recombinant canine IL-17, rhIL-17B, rhIL-17C, rhIL-17D, rhIL-17E, or rhIL-17F is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 41802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human IL-17 Ile20-Ala155 Accession # Q16552
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

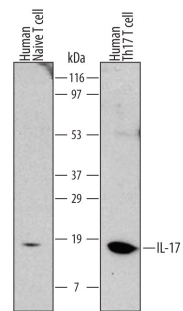
APPLICATIONS

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
Western Blot	2 µg/mL	See Below
Immunoprecipitation	3 µg/100 µg cell lysate	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

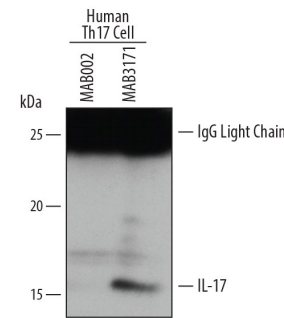
DATA

Western Blot



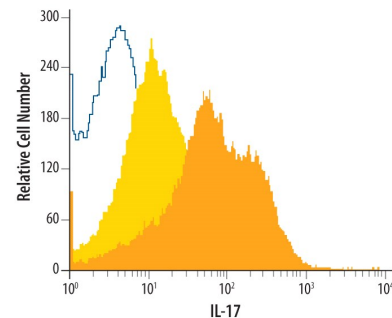
Detection of IL-17/IL-17A Mouse by Western Blot.
Western blot shows lysates of purified naïve human CD4⁺ T cells or *in vitro* differentiated human Th17 CD4⁺ T cells. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human IL-17 Monoclonal Antibody (Catalog # MAB3171) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for IL-17 at approximately 17 kDa (as indicated). This experiment was conducted under reducing conditions and using *Immunoblot Buffer Group 1*.

Immunoprecipitation



Immunoprecipitation of Human IL-17.
Human IL-17 was immunoprecipitated from 100 µg of human *in vitro* differentiated Th17 cell lysate following incubation with 3 µg Mouse Anti-Human IL-17 Monoclonal Antibody (Catalog # MAB3171) or isotype control antibody (Catalog # MAB002) 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](#).

Intracellular Staining by Flow Cytometry



Detection of IL-17 in Human PBMCs by Flow Cytometry.
Human peripheral blood mononuclear cells were unstimulated (light orange filled histogram) or treated with 50 ng/mL PMA and 250 ng/mL Ca²⁺ ionomycin for 16 hours, then stained with Mouse Anti-Human IL-17 Monoclonal Antibody (Catalog # MAB3171, dark orange filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG F(ab)₂ Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

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.
*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.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interleukin-17 (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.