

Human IL-17/IL-17A Antibody

Recombinant Monoclonal Mouse IgG₁ Clone # 41802R Catalog Number: MAB3171R

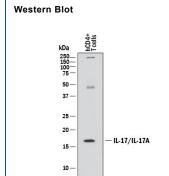
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-17 in direct ELISAs and Western blots. In direct ELISAs, 100% cross-reactivity with recombinant human (rh) IL-17A/IL-17F heterodimer and no cross-reactivity with rhIL-17F, recombinant mouse IL-17, and recombinant rat IL-17A is observed.		
Source	Recombinant Monoclonal Mouse IgG ₁ Clone # 41802R		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	E.coli-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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

APPLICATIONS

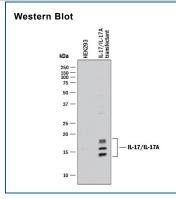
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	1 μg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 μg/10 ⁶ cells	See Below

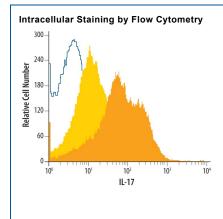
DATA



Detection of Human IL-17/IL-17A by
Western Blot. Western blot shows lysates of
human CD4⁺ T cells. PVDF membrane was
probed with 1 µg/mL of Mouse Anti-Human
IL-17/IL-17A Monoclonal Antibody (Catalog #
MAB3171R) followed by HRP-conjugated
Anti-Mouse IgG Secondary Antibody
(Catalog # HAF018). A specific band was
detected for IL-17/IL-17A at approximately
17 kDa (as indicated). This experiment was
conducted under reducing conditions and
using Immunoblot Buffer Group 1.



Detection of Human IL-17/IL-17A by
Western Blot. Western blot shows lysates of
HEK293 human embryonic kidney cell line
either mock transfected or transfected with
human IL-17/IL-17A. PVDF membrane was
probed with 1 µg/mL of Mouse Anti-Human
IL-17/IL-17A Monoclonal Antibody (Catalog #
MAB3171R) followed by HRP-conjugated
Anti-Mouse IgG Secondary Antibody
(Catalog # HAF018). Specific bands were
detected for IL-17/IL-17A at approximately
14-19 kDa (as indicated). This experiment
was conducted under reducing conditions and
using Immunoblot Buffer Group 1.



Detection of IL-17/IL-17A in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) were unstimulated (light orange filled histogram) or treated with 50 ng/mL PMA and 250 ng/mL calcium ionomycin for 16 hours, then stained with Mouse Anti-Human IL-17/IL-17A Monoclonal Antibody (Catalog # MAB3171R, dark orange filled histogram) or isotype control antibody (Catalog # MAB002, open histogram), followed by Allophycocyaninconjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.

Rev. 2/17/2020 Page 1 of 2





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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.

Rev. 2/17/2020 Page 2 of 2

