

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-10 R β in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human (rh) IL-10 R β is observed and less than 1% cross-reactivity with rhIL-10 R and recombinant mouse IL-10 R is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-10 R β Ile21-Ser220 Accession # Q61190
Formulation	Lyophilized from a 0.2 μ m 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 μ m filtered solution in PBS.

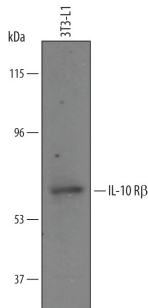
APPLICATIONS

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 μ g/mL	See Below
Flow Cytometry	2.5 μ g/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.	

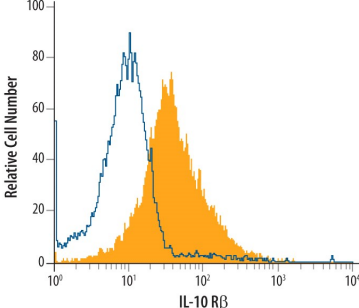
DATA

Western Blot



Detection of Mouse IL-10 R β by Western Blot. Western blot shows lysates of Differentiated 3T3-L1 mouse embryonic fibroblast adipose-like cell line. PVDF membrane was probed with 1 μ g/mL of Goat Anti-Mouse IL-10 R β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5368) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for IL-10 R β at approximately 60 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

Flow Cytometry



Detection of IL-10 R β in A20 Mouse Cell Line by Flow Cytometry. A20 mouse B cell lymphoma cell line was stained with Goat Anti-Mouse IL-10 R β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5368, filled histogram) or isotype control antibody (Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0108).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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. <ul style="list-style-type: none"> • 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

IL-10 R β (Interleukin 10 receptor beta; also IL-10 R2, CD210b and CRF2-4) is a 60-65 kDa member of the type II cytokine receptor family of proteins. It is very widely expressed, and serves as a signal transducing accessory chain when complexed to the ligand-binding chains for IL-10, -22, -28A, -28B and -29 (plus IL-26 in human). Mature mouse IL-10 R β is a type I transmembrane protein that is 330 amino acids (aa) in length. It contains a 201 aa extracellular domain (aa 20-220) that possesses two fibronectin type III domains (aa 22-107 and 111-208). There is one alternate start site at Met20. Over aa 21-220, mouse IL-10 R β shares 87% and 74% aa identity with rat and human IL-10 R β , respectively.