

IL-10R β (Y-18): sc-69580

BACKGROUND

The IL-10 receptor, IL-10R, is a member of the class II subgroup of the cytokine receptor family and exhibits structural similarity to the interferon receptor. IL-10R is expressed in B cells and T helper cells, as well as in LPS-induced mouse fibroblasts. Overall, mouse IL-10R and human IL-10R share 60% sequence identity at the protein level. Stimulation with IL-10 leads to phosphorylation of JAK1 and Tyk 2 tyrosine kinases. The activated kinases phosphorylate the two tyrosine residues (Tyr 446 and Tyr 496) in the cytoplasmic domain of IL-10R α . The phosphorylation of these two residues are required for proper function of IL-10R and activation of IL-10E1 signaling. IL-10R β is ubiquitously expressed and, in addition to forming the IL-10 heterodimeric receptor, it forms a heterodimeric receptor with an IL-22R subunit and an IL-28R subunit. IL-10R is constitutively expressed on human natural killer (NK) cells and the direct binding of IL-10 potentiates cytokine production by human NK cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: IL10RB (human) mapping to 21q22.11.

SOURCE

IL-10R β (Y-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of IL-10R β of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-69580 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

IL-10R β (Y-18) is recommended for detection of IL-10R β of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

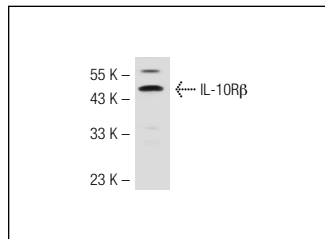
IL-10R β (Y-18) is also recommended for detection of IL-10R β in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for IL-10R β siRNA (h): sc-75331, IL-10R β shRNA Plasmid (h): sc-75331-SH and IL-10R β shRNA (h) Lentiviral Particles: sc-75331-V.

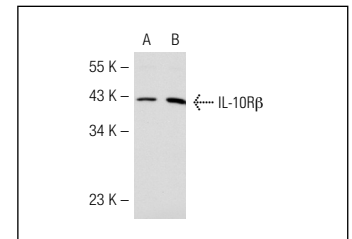
Molecular Weight of IL-10R β : 37 kDa.

Positive Controls: IL-10R β (h2): 293T Lysate: sc-176033, Jurkat whole cell lysate: sc-2204 or U-937 cell lysate: sc-2239.

DATA



IL-10R β (Y-18): sc-69580. Western blot analysis of IL-10R β expression in Jurkat whole cell lysate.



IL-10R β (Y-18): sc-69580. Western blot analysis of IL-10R β expression in non-transfected: sc-117752 (A) and human IL-10R β transfected: sc-176033 (B) 293T whole cell lysates

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS
Satisfaction
Guaranteed

Try **IL-10R β (F-6): sc-271969** or **IL-10R β (B-4): sc-514822**, our highly recommended monoclonal alternatives to IL-10R β (Y-18).