



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

IL-10R α (h): 293T Lysate: sc-176018

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

1. Ho, A.S.Y., Liu, Y., Khan, T.A., Hsu, D.H., Bazan, J.F. and Moore, K.W. 1993. A receptor for Interleukin-10 is related to interferon receptors. *Proc. Natl. Acad. Sci. USA* 90: 11267-11271.
2. Weber-Nordt, R.M., Meraz, M.A. and Schreiber, R.D. 1994. Lipopoly-saccharide-dependent induction of IL-10 receptor expression on murine fibroblasts. *J. Immunol.* 153: 3734-3744.
3. Ho, A.S., Wei, S.H., Mui, A.L., Miyajima, A. and Moore, K.W. 1995. Functional regions of the mouse Interleukin-10 receptor cytoplasmic domain. *Mol. Cell. Biol.* 15: 5043-5053.
4. Tan, J.C., Braun, S., Rong, H., DiGiacomo, R., Dolphin, E., Baldwin, S., Narula, S.K., Zavodny, P.J. and Chou, C.C. 1995. Characterization of recombinant extracellular domain of human Interleukin-10 receptor. *J. Biol. Chem.* 270: 12906-12911.
5. Carson, W.E., Lindemann, M.J., Baiocchi, R., Linett, M., Tan, J.C., Chou, C.C., Narula, S. and Caligiuri, M.A. 1995. The functional characterization of Interleukin-10 receptor expression on human natural killer cells. *Blood* 85: 3577-3585.
6. Corinti, S., Albanesi, C., Ia Sala, A., Pastore, S. and Girolomoni, G. 2001. Regulatory activity of autocrine IL-10 on dendritic cell functions. *J. Immunol.* 166: 4312-4318.
7. Vilcek, J. 2002. Novel interferons. *Nat. Immunol.* 4: 8-9.
8. Stearns, M.E., Hu, Y. and Wang, M. 2003. IL-10 signaling via IL-10E1 is dependent on tyrosine phosphorylation in the IL-10R α chain in human primary prostate cancer cell lines. *Oncogene* 22: 3781-3791.
9. Sheikh, F., Baurin, V.V., Lewis-Antes, A., Shah, N.K., Smirnov, S.V., Anantha, S., Dickensheets, H., Dumoutier, L., Renauld, J.C., Zdanov, A., Donnelly, R.P. and Kotenko, S.V. 2004. Cutting edge: IL-26 signals through a novel receptor complex composed of IL-20 receptor 1 and IL-10 receptor 2. *J. Immunol.* 172: 2006-2010.

CHROMOSOMAL LOCATION

Genetic locus: IL10RA (human) mapping to 11q23.3.

PRODUCT

IL-10R α (h): 293T Lysate represents a lysate of human IL-10R α transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

IL-10R α (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive IL-10R α antibodies. Recommended use: 10-20 μ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

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

PROTOCOLS

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