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Diagnostik & molekulare Diagnostik



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IL-1RAcP (h): 293T Lysate: sc-116546

BACKGROUND

Interleukin-1 (IL-1) is a key pro-inflammatory cytokine that has diverse actions in the brain as a regulator of host defense responses and a mediator of inflammation. Two major agonists, IL-1 α and IL-1 β , bind to a single known functional type-1 IL-1 receptor (IL-1RI), which associates with the accessory protein (IL-1RAcP), resulting in signal transduction. IL-1F6, IL-1F8 and IL-1F9 signal through IL-1RAcP to activate NF κ B. The membrane bound form of IL-1RAcP (mIL-1RAcP) facilitates signal transduction. Two alternatively spliced isoforms, soluble IL-1RAcP (sIL-1RAcP) and sIL-1RAcP- β , which lack transmembrane and intracellular domains, can inhibit IL-1 signaling. Although both mIL-1RAcP and sIL-1RAcP mRNAs are widely expressed in human tissue, their relative proportions differ significantly in a tissue-specific manner.

REFERENCES

- Greenfeder, S.A., Nunes, P., Kwee, L., Labow, M., Chizzonite, R.A. and Ju, G. 1995. Molecular cloning and characterization of a second subunit of the interleukin-1 receptor complex. *J. Biol. Chem.* 270: 13757-13765.
- Jensen, L.E. and Whitehead, A.S. 2003. Expression of alternatively spliced interleukin-1 receptor accessory protein mRNAs is differentially regulated during inflammation and apoptosis. *Cell. Signal.* 15: 793-802.
- Smeets, R.L., van de Loo, F.A., Joosten, L.A., Arntz, O.J., Bennink, M.B., Loesberg, W.A., Dmitriev, I.P., Curiel, D.T., Martin, M.U. and van den Berg, W.B. 2003. Effectiveness of the soluble form of the interleukin-1 receptor accessory protein as an inhibitor of interleukin-1 in collagen-induced arthritis. *Arthritis Rheum.* 48: 2949-2958.
- Jensen, L.E. and Whitehead, A.S. 2004. The 3' untranslated region of the membrane-bound IL-1R accessory protein mRNA confers tissue-specific destabilization. *J. Immunol.* 173: 6248-6258.
- Towne, J.E., Garka, K.E., Renshaw, B.R., Virca, G.D. and Sims, J.E. 2004. Interleukin (IL)-1F6, IL-1F8 and IL-1F9 signal through IL-1Rrp2 and IL-1RAcP to activate the pathway leading to NF κ B and MAPKs. *J. Biol. Chem.* 279: 13677-13688.
- Smeets, R.L., Joosten, L.A., Arntz, O.J., Bennink, M.B., Takahashi, N., Carlsen, H., Martin, M.U., van den Berg, W.B. and van de Loo, F.A. 2005. Soluble interleukin-1 receptor accessory protein ameliorates collagen-induced arthritis by a different mode of action from that of interleukin-1 receptor antagonist. *Arthritis Rheum.* 52: 2202-2211.
- Andre, R., Lerouet, D., Kimber, I., Pinteaux, E. and Rothwell, N.J. 2005. Regulation of expression of the novel IL-1 receptor family members in the mouse brain. *J. Neurochem.* 95: 324-330.
- Andre, R., Moggs, J.G., Kimber, I., Rothwell, N.J. and Pinteaux, E. 2006. Gene regulation by IL-1 β independent of IL-1R1 in the mouse brain. *Glia* 53: 477-483.

CHROMOSOMAL LOCATION

Genetic locus: IL1RAP (human) mapping to 3q28.

RESEARCH USE

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

PRODUCT

IL-1RAcP (h): 293T Lysate represents a lysate of human IL-1RAcP transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

IL-1RAcP (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive IL-1RAcP 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.

PROTOCOLS

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