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IL-1 β (h2): 293T Lysate: sc-159166

BACKGROUND

Two forms of interleukin-1, designated IL-1 α and IL-1 β , have been described. Although encoded by distinct genes and exhibiting roughly only 25% sequence identity, IL-1 α and IL-1 β bind to the same receptor and seem to elicit similar biological responses. IL-1 production is generally thought to be associated with inflammation, but it has also been shown to be expressed during kidney development, thymocyte differentiation and cartilage degradation. IL-1 plays a critical role in the regulation of immune response and inflammation, acting as an activator of T and B lymphocytes and natural killer (NK) cells. In T cells, IL-1 stimulates the production of IL-2 and selectively inhibits IL-4 expression. IL-1 induces B cell proliferation and maturation, and immunoglobulin synthesis. NK cells require IL-1 β for production of the anti-pathogen IFN- γ . IL-1 has also been implicated in several pathological conditions including rheumatoid arthritis, inflammatory bowel disease and atherosclerosis.

REFERENCES

1. Auron, P.E., Webb, A.C., Rosenwasser, L.J., Mucci, S.F., Rich, A., Wolff, S.M. and Dinarello, C.A. 1985. Nucleotide sequence of human monocyte interleukin-1 precursor cDNA. *Proc. Natl. Acad. Sci. USA* 81: 7907-7911.
2. March, C.J., Mosley, B., Larsen, A., Cerretti, D.P., Braedt, G., Price, V., Gillis, S., Henney, C.S., Kronheim, S.R. and Grabstein, K. 1985. Cloning, sequence and expression of two distinct human interleukin-1 complementary DNAs. *Nature* 315: 641-647.
3. Dinarello, C.A. 1991. Interleukin-1 and interleukin-1 antagonism. *Blood* 77: 1627-1652.
4. Sadouk, M.B., Pelletier, J.P., Tardif, G., Kiansa, K., Cloutier, J.M. and Martel-Pelletier, J. 1995. Human synovial fibroblasts coexpress IL-1 receptor type I and type II mRNA. The increased level of the IL-1 receptor in osteoarthritic cells is related to an increased level of the type I receptor. *Lab. Invest.* 73: 347-355.
5. Lonnemann, G., Shapiro, L., Engler-Blum, G., Müller, G.A., Koch, K.M. and Dinarello, C.A. 1995. Cytokines in human renal interstitial fibrosis. I. Interleukin-1 is a paracrine growth factor for cultured fibrosis-derived kidney fibroblasts. *Kidney Int.* 47: 837-844.
6. Zúñiga-Pflücker, J.C., Di, J. and Lenardo, M.J. 1995. Requirement for TNF α and IL-1 α in fetal thymocyte commitment and differentiation. *Science* 268: 1906-1909.
7. Sandborg, C.I., Imfeld, K.L., Zaldivar, F., Wang, Z., Buckingham, B.A. and Berman, M.A. 1995. IL-4 expression in human T cells is selectively inhibited by IL-1 α and IL-1 β . *J. Immunol.* 155: 5206-5212.

STORAGE

Store at -20° 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.

CHROMOSOMAL LOCATION

Genetic locus: IL1B (human) mapping to 2q13.

PRODUCT

IL-1 β (h2): 293T Lysate represents a lysate of human IL-1 β transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

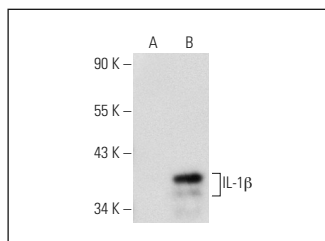
APPLICATIONS

IL-1 β (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive IL-1 β antibodies. Recommended use: 10-20 μ l per lane.

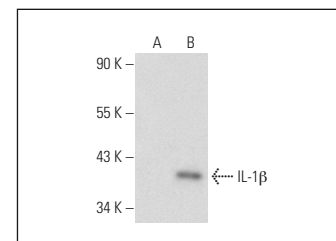
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

IL-1 β (AS57): sc-52771 is recommended as a positive control antibody for Western Blot analysis of enhanced human IL-1 β expression in IL-1 β transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

DATA



IL-1 β (AS57): sc-52771. Western blot analysis of IL-1 β expression in non-transfected: sc-117752 (A) and human IL-1 β transfected: sc-159166 (B) 293T whole cell lysates.



IL-1 β (11E5): sc-52012. Western blot analysis of IL-1 β expression in non-transfected: sc-117752 (A) and human IL-1 β transfected: sc-159166 (B) 293T whole cell lysates.

RESEARCH USE

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