

BACKGROUND

Interleukin 1 (IL-1) consists of two proteins, IL-1 α and IL-1 β , which are the products of distinct genes, but which recognize the same cell surface receptors. IL-1 α and IL-1 β show approximately 25% identity in the amino acid sequence.¹⁾ Both IL-1 α and IL-1 β are synthesized as 31K Da precursors that are subsequently cleaved into proteins with molecular weights of approximately 17Kda.^{2,3)} Among various species, the amino acid sequences of mature IL-1 α is conserved 60% to 70%, while that of the mature IL-1 β conserved 75% to 78%.⁴⁾ Both IL-1 α and IL-1 β have glycosylation sites, but non-glycosylated recombinant products have biological activities similar to the naturally occurring forms of the molecules.^{5,6)}

IMMUNOGEN:Recombinant IL-1 β (Rat)**for ELISA:**Approximately 0.14-0.4ng/well of recombinant rat IL-1 β can be detected using an antiserum concentration of dilution ratio x1000**for WESTERN BLOTTING:**An antiserum concentration of dilution ratio x1000 will allow visualization of 0.01-0.003ng/lane of recombinant rat IL-1 β under reducing condition.**SPECIFICITY:**IL-1 β (Rat) 100%,IL-1 β (Human) 6.8%IL-1 α (Rat) <0.1%,IL-1 α (Human) <0.1%TNF- α (Rat) <0.1%,TNF- α (Human) <0.1%

Other Cytokines <0.1%

RELATED ANTISERA:Rabbit Anti IL-1 α (Rat) Serum YC 010Goat Anti IL-1 α (Rat) Serum YC 011Goat Anti IL-1 β (Rat) Serum YC 021Anti IL-1 β (Rat) Monoclonal Antibody YC 022**RELATED PEPTIDES:**IL-1 α , TNF- α , TNF- β , Other Cytokines**STORAGE:**

Keep frozen below -20°C

Avoid repeated freezing-thawing

REFERENCES:

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- 3) DJ Hazuda, J Strickler, F Kueppers, PL Simon, and PR Young., J. Biol. Chem., 265: 6318-6322, 1990
- 4) Dodds RA, Merry K, Littlewood A, Gowen M. J., Histochem. Cytochem., 42: 733-744, 1994
- 5) Dinarello CA., Blood, 77:1627-1652, 1991
- 6) Casagli MC, Borri MG, Bigio M, Rossi R, Nucci D, Bossu P, Boraschi D, Antoni G. Biochem Biophys Res Commun., 162: 357-363, 1989

FOR RESEARCH LABORATORY USE ONLY

DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM



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