

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 17K Da.²⁾ 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 is conserved 75% to 78%.³⁾ 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 α (Rat)**for ELISA:**Approximately 0.05-0.14ng/well of recombinant rat IL-1 α 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 α under reducing condition.**SPECIFICITY:**

IL-1 α (Rat) 100%,	IL-1 α (Human) 5.9%
IL-1 β (Rat) <0.5%,	IL-1 β (Human) <0.5%
TNF- α (Rat) <0.5%,	TNF- α (Human) <0.5%
Other Cytokines <0.5%	

RELATED ANTISERA:

Rabbit Anti IL-1 α (Rat) Serum YC 010
Rabbit Anti IL-1 β (Rat) Serum YC 020
Goat Anti IL-1 β (Rat) Serum YC 021
Anti IL-1 β (Rat) Monoclonal Antibody YC 022

RELATED PEPTIDES:IL-1 β , TNF- α , TNF- β , Other Cytokines**STORAGE:**

Keep frozen below -20°C
Avoid repeated freezing-thawing

REFERENCES:

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- 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

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