



Anti IL-1 β (Rat) Serum **Cat. No. YII-YC021-EX**

Description: 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) **Host:** Goat

for ELISA: Approximately 0.4-1.2 ng/well of recombinant rat IL-1 β can be detected using an antiserum concentration of dilution ratio x1000.

for WB: An antiserum concentration of dilution ratio x1000 will allow visualization of 0.03-0.001 ng/lane of recombinant rat IL-1 β under reducing condition.

Specificity:

| | | | |
|---------------------|--------|-----------------------|--------|
| IL-1 β (Rat) | 100%, | IL-1 β (Human) | 19.2% |
| IL-1 α (Rat) | <0.01% | IL-1 α (Human) | <0.01% |
| TNF- α (Rat) | <0.01% | TNF- α (Human) | <0.01% |
| Other Cytokines | <0.01% | | |

Related Antisera: Rabbit Anti IL-1 α (Rat) Serum YII-YC010-EX
Goat Anti IL-1 α (Rat) Serum YII-YC011-EX
Rabbit Anti IL-1 β (Rat) Serum YII-YC020-EX
Anti IL-1 β (Rat) Monoclonal Antibody YII-YC022-EX

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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- 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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TEL : +81-3-5632-9617
FAX : +81-3-5632-9618
URL : <http://www.cosmobio.co.jp/>
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Manufacturer



株式会社
英白原研究所
Yanaihara Institute Inc.
2480-1 Awakura, Fujinomiya-shi,
Shizuoka 418-0011, JAPAN
Phone: +81-544-22-2771
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