



Anti IL-1 β (Rat) Monoclonal antibody **Cat. No. YII-YC022-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 α (Rat) **Type:** IgG1/k

for ELISA: Approximately 0.13-0.4 ng/well of recombinant rat IL-1 β can be detected using an antiserum concentration of dilution ratio x20000.

for WB: An antiserum concentration of dilution ratio x1000 will allow visualization of 0.3-0.1 ng/lane of recombinant rat IL-1 β under reducing condition.

Specificity:

IL-1 β (Rat)	100%,	IL-1 β (Human)	0.28%
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
Goat Anti IL-1 β (Rat) Serum YII-YC021-EX

Related Peptides: IL-1 β , TNF- α , TNF- β , Other Cytokines

Storage: Keep frozen below -20°C
Avoid repeated freezing-thawing.

REFERENCES:

- 1) Oppenheim JJ, et al., Immunol. Today, 7:45, 1986
- 2) Giri JG, Lomedico PT, Mizel SB., J. Immunol. 134:343-349, 1985
- 3) DJ Hazuda, J Stricker, 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

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DO NOT USE ORGANIC SOLVENTS FOR DISSOLVING ANTISERUM

