Anti IL-1β(Rat) Monoclonal antibody
Cat. No. YII-YC022-EX

Description: Interleukin 1 (IL-1) consists of two proteins, IL-1α and IL-1β, which are the products of distinct genes, but which recognize the same cell surface receptors. IL-1α and IL-1β show approximately 25% identity in the amino acid sequence.[1] Both IL-1α and IL-1β 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-1α is conserved 60% to 70%, while that of the mature IL-1 β conserved 75% to 78%.[4] Both IL-1 α and IL-1β 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-1α (Rat) **Type:** IgGI/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-1β(Rat)	100%	IL-1β(Human)	0.28%
IL-1α(Rat)	<0.01%	IL-1α(Human)	<0.01%
TNF-α(Rat)	<0.01%	TNF-α(Human)	<0.01%
Other Cytokines	<0.01%		

Related Antisera:
Rabbit Anti IL-1α(Rat) Serum YII-YC010-EX
Goat Anti IL-1α(Rat) Serum YII-YC011-EX
Rabbit Anti IL-1β(Rat) Serum YII-YC020-EX
Goat Anti IL-1β(Rat) Serum YII-YC021-EX

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

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

REFERENCES:

1) Oppenheim JJ, et al., Immumol. 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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