BACKGROUND

Interleukin1 (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. Both IL-1 α and IL-1 β are synthesized as 31KDa precursors that are subsequently cleaved into proteins with molecular weights of approximately 17KDa. 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%. Both IL-1 α and IL-1 β have glycosylation sites, but non-glycosylated recombinant products have biological activities similar to the naturally occuring forms of the molecules.

IMMUNOGEN:

Recombinant IL-1 β (Rat)

TYPE:

IgGI/k

for ELISA:

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

for WESTERN BLOTTING:

An antiserum concentration of dilution ratio x1000 will allow visualization of 0.3-0.1ng/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 YC 010

Goat Anti IL-1 α (Rat) Serum YC 011 Rabbit Anti IL-1 β (Rat) Serum YC 020 Goat Anti IL-1 β (Rat) Serum YC 021

RELATED PEPTIDES:

IL-1 α , TNF- α , TNF- β , Other Cytokines

STORAGE:

Keep frozen below -20℃

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 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 USE ONLY

<Distributed by>

SCETI K.K.

DF Kasumigaseki Place, 3-6-7 Kasumigaseki, Chiyoda-ku, Tokyo 100-0013 Japan

URL: http://www.sceti.co.jp/export/ e-mail: exp-pet@sceti.co.jp

<Manufacturer>

Yanaihara Institute Inc.

2480-1 Awakura, Fujinomiya-shi, Shizuoka 418-0011 JAPAN