



Product Information Sheet

Polyclonal Anti- Interleukin-1 alpha, *IL-1α* (Magnetic Bead Conjugate)

Catalogue No. PA1375-M

Lot No. 0131112067527

Ig type rabbit IgG

Size 100µg/vial

Specificity

Mouse.

No cross reactivity with other proteins.

Recommended application

ImmunoPrecipitation

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminal of mouse IL-1α (256-270 aa), identical to the related mouse and rat sequence.

Purity

Immunogen affinity purified.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

BACKGROUND

Interleukin-1 alpha (IL-1α) is a protein that in humans is encoded by the IL1A gene. The protein encoded by this gene is a cytokine of the interleukin-1 family. Interleukin-1 alpha possesses a wide spectrum of metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. Silver et al. (1990) showed that the mouse Il1a and Il1b genes are contained in a genomic fragment of about 70 kb. Further studies suggested that Il1b lies 5-prime to Il1a, that the 2 genes are oriented in the same direction, and that they are separated by about 50 kb.

REFERENCE

- 1.Nicklin MJ, Weith A, Duff GW (Jun 1994). "A physical map of the region encompassing the human interleukin-1 alpha, interleukin-1 beta, and interleukin-1 receptor antagonist genes". Genomics 19 (2): 382-4.
- 2.March CJ, Mosley B, Larsen A, Cerretti DP, Braedt G, Price V, Gillis S, Henney CS, Kronheim SR, Grabstein K, et al. (Aug 1985). "Cloning, sequence and expression of two distinct human interleukin-1 complementary DNAs". Nature 315 (6021): 641-7.
- 3.Bankers-Fulbright JL, Kalli KR, McKean DJ (1996). "Interleukin-1 signal transduction". Life Sci. 59 (2): 61-83.
- 4.Dinarello CA (June 1997). "Induction of interleukin-1 and interleukin-1 receptor antagonist". Semin. Oncol. 24 (3 Suppl 9): S9-81-S9-93.

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