



Polyclonal Anti- Interleukin-1 beta, *IL1B*

Catalogue No. PA1351

Lot No. 01310121851124

Ig type rabbit IgG

Size 100µg/vial

Specificity

Rat, mouse

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

ELISA

Immunogen

A synthetic peptide corresponding to a sequence at the middle region of rat IL1B (211-225 aa), different from the mouse sequence by one amino acid.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Ms	-	-
IHC-P	1µg/ml	Rat, Ms	-	By Heat
IHC-F	-	-	-	-
ELISA	√			

WB: The detection limit for IL-1B is approximately 5ng/lane under non-reducing and reducing conditions.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

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.

To reorder contact us at:

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BACKGROUND

Interleukin-1 beta (IL-1 β) also known as catabolin, is a cytokine protein that in humans is encoded by the IL1B gene, which localizes to the long arm of chromosome 2 at position 2q13-2q21 between two fragile sites.¹ Interleukin 1 (IL-1) is a protein with several biological activities regulating host defense and immune responses.² The human IL-1 family plays an important role in the pathogenesis of many diseases and functions as a key mediator of the host response to various infectious, inflammatory, and immunologic challenges.³

REFERENCE

1. Webb, A. C., Collins, K. L., Auron, P. E., Eddy, R. L., Nakai, H., Byers, M. G., Haley, L. L., Henry, W. M., Shows, T. B. Interleukin-1 gene (IL1) assigned to long arm of human chromosome 2. Lymphokine Res. 5: 77-85, 1986.
2. Auron, P. E., Webb, A. C., Rosenwasser, L. J., Mucci, S. F., Rich, A., Wolff, S. M., Dinarello, C. A. Nucleotide sequence of human monocyte interleukin 1 precursor cDNA. Proc. Nat. Acad. Sci. 81: 7907-7911, 1984.
3. Dinarello, C. A. An update on human interleukin-1: from molecular biology to clinical relevance. J. Clin. Immun. 5: 287-297, 1985.