



Anti-Mouse IL-1 beta

20150223ML



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	103-P11
Size:	100 µg
Lot. No.:	According to product label

Preparation: Produced from sera of rabbits pre-immunized with highly pure (>98%) recombinant mIL-1 beta. Anti-Murine IL-1 beta specific antibody was purified by affinity chromatography employing immobilized mIL-1 beta matrix.

Target Background

Synonyms (Target):	interleukin 1 beta
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IL-1 is a name that designates two proteins, IL-1 alpha and IL-1 beta, that are the products of distinct genes, but recognize the same cell surface receptors. IL-1 alpha and IL-1 beta are structurally related polypeptides that show approximately 25% homology at the amino acid level. Both proteins are produced by a wide variety of cells in response to stimuli such as those produced by inflammatory agents, infections, or microbial endotoxins.

Database References Target

Protein RefSeq:	NP_032387
Uniprot ID:	P10749
mRNA RefSeq:	NM_008361

Product Specifications

Species reactivity	Mouse
Clone/Ab feature	Rabbit IgG
Cross reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal Antibody
Purification	Antigen-affinity purified
Immunogen	Recombinant mouse IL-1 beta
Formulation	lyophilized from PBS
Reconstitution buffer	water

Reconstitution: Reconstitute the antibody in sterile water to a concentration of 0.1 - 1.0 mg/ml.

Stability: The lyophilized antibody is stable for at least 2 years from date of receipt at -20°C. The reconstituted antibody is stable for at least two weeks at 2-8°C. Frozen aliquots are stable for at least 6 months when stored at -20°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Applications

Neutralization: To yield one-half maximal inhibition [ND₅₀] of the biological activity of murine IL-1-beta (50 pg/ml), a concentration of 100-150 ng/ml of this antibody is required.

ELISA: To detect murine IL-1-beta by direct ELISA (using 100 ml/well antibody solution) a concentration of at least 0.5 mg/ml of this antibody is required. This antigen affinity purified antibody, in conjunction with compatible secondary reagents, allows the detection of 0.2 - 0.4 ng/well of recombinant murine IL-1-beta.

Western Blot: To detect murine IL-1-beta by Western Blot analysis this antibody can be used at a concentration of 0.1 - 0.2 mg/ml. Used in conjunction with compatible secondary reagents the detection limit for recombinant murine IL-1-beta is 1.5 - 3.0 ng/lane, under either reducing or non-reducing conditions.

NOTE: OPTIMAL DILUTIONS SHOULD BE DETERMINED BY EACH LABORATORY FOR EACH APPLICATION!