

Product Data Sheet

Biotin anti-mouse / rat IL-1 β

Catalog # / Size: 503505 / 50 μ g

Clone: B122

Isotype: Armenian Hamster IgG

Immunogen: *E. coli* -expressed, recombinant mouse IL-1 β

Reactivity: Mouse, Rat

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**

Applications:

Applications: ELISA-*Quality tested*
IHC - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay.

Application Notes: **ELISA or ELISPOT Capture³:** The purified B122 antibody is useful as the capture antibody in a mouse IL-1 β sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated Poly5158 antibody (Cat. No. 515801) as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.

Certain formats of clone B122 have been reported for *in vitro* neutralization of IL-1 β bioactivity¹, *in vivo* cytokine depletion⁵, immunohistochemical staining of frozen sections⁶, Western blotting⁷, and the study of endotoxin shock⁸.

Application References:

1. Hogquist K, *et al.* 1991. *J. Immunol.* 146:1534.
2. Williams RO, *et al.* 2000. *J. Immunol.* 165:7240. (Neut)
3. Brewer J, *et al.* 1998. *J. Immunol.* 161:4000. (ELISA and ELISPOT Capture)
4. Rogers HW, *et al.* 1992. *Proc. Natl. Acad. Sci. USA* 89:1011.
5. Cantwell AM, *et al.* 2010. *BMC Immunol.* 11:29. (Depletion)
6. Dube PH, *et al.* 2001. *Proc. Natl. Acad. Sci. USA* 98:10880. (IHC)
7. Babelova A, *et al.* 2009. *J. Biol. Chem.* 284:24035. (WB)
8. Lu JY, *et al.* 2006. *Genes Dev.* 20:3174. (Neut) PubMed

Description: IL-1 refers to two proteins, IL-1 α and IL-1 β which are the products of distinct genes, but which are recognized by the same cell surface receptors. IL-1 β is a potent immuno-modulator which mediates a wide range of immune and inflammatory responses including the activation of B and T cells. The B122 antibody reacts with the precursor and mature secreted forms of mouse IL-1 β . This antibody also recognizes rat IL-1 β . The B122 antibody can neutralize the bioactivity of natural or recombinant IL-1 β .

Antigen References:

1. Fitzgerald K, *et al.* Eds. 2001. *The Cytokine FactsBook*. Academic Press San Diego.
2. Bomford R, *et al.* Eds. 1989. *Interleukin-1 inflammation and disease*. Elsevier New York.
3. Brazel D, *et al.* 1991. *Biotechnol. Ther.* 2:241.
4. Dinarello C. 1996. *Blood* 87:2095.



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