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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-IL-1B [10G11] Standard Size Ab03560-7.1

This chimeric rat antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rat IgG2a, Kappa

Clone Number: 10G11

Alternative Name(s) of Target: IL1B; IL-1β; Interleukin-1 beta; IL-1 beta

UniProt Accession Number of Target Protein: P10749

Published Application(s): functional assay, ELISA

Published Species Reactivity: Mouse

Immunogen: The original antibody was generated by immunizing IL-1α/β double KO mice with mouse IL-1 beta.

Specificity: This antibody binds mouse Interleukin-1 beta, which is a potent pro-inflammatory cytokine. Initially discovered as the major endogenous pyrogen, induces prostaglandin synthesis, neutrophil influx and activation, T-cell activation and cytokine production, B-cell activation and antibody production, and fibroblast proliferation and collagen production. It promotes Th17 differentiation of T-cells and synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells. It also plays a role in angiogenesis by inducing VEGF production synergistically with TNF and IL6.

Application Notes: The original mouse IgG antibody binds mouse IL-1B with a binding affinity of $K_d = 0.23$ nM. The binding characterization of this antibody was done using ELISA. In vitro antibody potency was determined by its ability to inhibit IL-8 production by MRC-5 cells. This antibody was able to inhibit IL-8 production by MRC-5 cells with an IC_{50} of $3.70E-10$ M. This antibody was used in combination with 9H10 (anti- mouse IL-1A) antibody for the generation of anti-mouse IL-1α/β DVD-Ig molecule (US7612181).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -

20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.