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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-IL-1B [1B12.4H4] Ab03562-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human 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: Human IgG1, Fc Silent™, Kappa

Clone Number: 1B12.4H4

Alternative Name(s) of Target: IL1B; IL-1β; 1L1F2; Interleukin-1 beta; IL-1 beta; Catabolin

UniProt Accession Number of Target Protein: P01584

Published Application(s): functional assay, ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing mice with recombinant human IL-1 beta.

Specificity: This antibody binds human 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 human IL-1B with a binding affinity of $K_d = 0.26$ 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 $5.30E-10$ M. This antibody was used in combination with 18F4.2C8 (anti-IL-1α) antibody for the generation of anti-human IL-1α/β DVD-Ig molecule that had therapeutic potential (PMID: 20068402).

Antibody First Published in: Wu et al. Molecular construction and optimization of anti-human IL-1α/β dual variable domain immunoglobulin (DVD-Ig™) molecules. MAbs. 2009 Jul-Aug; 1(4): 339-347.

[PMID:20068402](#)

Note on publication: Describes the generation of anti-human IL-1α/β DVD-Ig™ molecules using several pairs of monoclonal antibodies with therapeutic potential.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.