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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

Anti-IL-1B [6B12.4F6] Ab03561-10.0-BT

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, Kappa

Clone Number: 6B12.4F6

Alternative Name(s) of Target: IL1B; IL-1 β ; 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 $K_d = 0.55$ 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 $3.20E-10$ M. This antibody was used in combination with 6H3.1A4 (anti-IL-1 α) antibody for the generation of anti-human IL-1 α/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-1 α/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-1 α/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.