



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### 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](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

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

## Anti-IL-1B [1B12.4H4] Ab03562-10.0-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:** 1B12.4H4

**Alternative Name(s) of Target:** IL1B; IL-1 $\beta$ ; 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-1 $\alpha$ ) antibody for the generation of anti-human IL-1 $\alpha/\beta$  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 $\alpha/\beta$  dual variable domain immunoglobulin (DVD-Ig<sup>TM</sup>) molecules. MAbs. 2009 Jul-Aug; 1(4): 339-347.

[PMID:20068402](#)

**Note on publication:** Describes the generation of anti-human IL-1 $\alpha/\beta$  DVD-Ig<sup>TM</sup> 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.