



# 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

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## Anti-IL-1A [18F4.2C8] Standard Size Ab03558-23.0

This chimeric rabbit 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:** Rabbit IgG, Kappa

**Clone Number:** 18F4.2C8

**Alternative Name(s) of Target:** IL1A; IL-1 $\alpha$ ; IL1F1; Interleukin-1 alpha; IL-1 alpha; Hematopoietin-1

**UniProt Accession Number of Target Protein:** P01583

**Published Application(s):** functional assay, ELISA

**Published Species Reactivity:** Human

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

**Specificity:** This antibody binds human Interleukin-1 alpha, which is a cytokine constitutively present intracellularly in nearly all resting non-hematopoietic cells that plays an important role in inflammation and bridges the innate and adaptive immune systems. IL-1 $\alpha$  is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells.

**Application Notes:** The original mouse IgG antibody binds human IL-1A with a binding affinity of  $K_d = 0.6$  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  $8.90E-11$ M. This antibody was used in combination with 1B12.4H4 (anti-IL-1 $\beta$ ) 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™) 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™ molecules using several pairs of monoclonal antibodies with therapeutic potential.

### 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.