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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-1A [18F4.2C8] Standard Size Ab03558-10.3

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: 18F4.2C8

Alternative Name(s) of Target: IL1A; IL-1α; 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-1α 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-1β) 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:

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.