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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-IL-1A [18F4.2C8] Ab03558-23.0-BT

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 α ; 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 α 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 β) 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.