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Mouse Anti-Human IL-1 β Monoclonal Antibody Datasheet

Product Name: mAb anti-Human IL-1 β

Clone No.: S1H12

Catalogue No.: MO-C40029A

Quantity: 0.5 mg/vial

Description: Mouse monoclonal antibody to human Interleukin-1 beta (IL-1 β)

Purification: Protein G affinity purified

Product Type: Primary antibody

Target Protein: Human IL-1 β

Immunogen: Purified recombinant human IL-1 β

Fusion Myeloma: Sp2/0-Ag14

Specificity: The antibody is reactive with natural and recombinant human IL-1 β

Species Reactivity: Human, others not tested

Cross-Reactivity: Does not show any cross reaction with recombinant human IL-1 α , recombinant murine IL-1 α or IL-1 β .

Host / Isotype: Mouse, IgG1 Kappa

Formulation: Lyophilized from a solution in 0.01M PBS, pH 7.2.

Reconstitution: Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.

Storage: Store at -20°C

Research Area: Cytokine, Inflammation

Background: Interleukin 1 β (IL-1 β) shares the IL-1 receptor with other cytokines in IL-1 family. IL-1 β is primarily produced by activated macrophage as a proprotein, which is cleaved by caspase 1 to become active. Like IL-1 α , IL-1 β is an important mediator of innate immunity. IL-1 β stimulates lymphocyte proliferation and the production of TNF- α , IL-6 and IL-8. IL-1 β and TNF- α can synergistically act at NF κ B and mitogen kinases including JNKs and p38 MARKs, thus leading to the selective expression of genes for immunity and inflammation.

Applications: **ELISA:** React with human IL-1 β

Western Blot: The antibody reacts with IL-1 β expressed by human monocyte/macrophage and reacts with recombinant human IL-1 β . The antibody, when used at concentration of 20-100ng/mL will allow visualization of 100ng/lane of recombinant human IL-1 β on Western blot using 4-Chlorol 1-Naphthol substrate.

References: If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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