

# Anti-IL-1 $\beta$ (Canakinumab), Human IgG1 Antibody

rev 06/21

CATALOG NO.: A2144-100 (100  $\mu$ g)

**BACKGROUND DESCRIPTION:** The research-grade biosimilar is a recombinant human IgG1 kappa monoclonal antibody that is produced in murine Sp2/0-Ag14 cell line. This antibody binds to and neutralizes human IL-1 $\beta$  preventing association with its receptor and subsequent inflammatory signaling cascade. The antibody neither has cross-reactivity with IL-1 $\alpha$  nor with the Interleukin 1 receptor, type I (IL1R1). The original monoclonal antibody was developed to treat rheumatoid arthritis. It received FDA approval in 2009 to treat cryopyrin-associated periodic syndromes (CAPS). Additionally, in 2016, the original antibody also received approval for the treatment of Tumor Necrosis Factor Receptor-Associated Periodic Syndrome (TRAPS), Hyperimmunoglobulinemia D Syndrome (HIDS)/Mevalonate Kinase Deficiency (MKD), and Familial Mediterranean Fever (FMF).

**ALTERNATE NAMES:** IL-1, IL1F2, IL1beta, IL1-BETA, IL1B

**ANTIBODY TYPE:** Monoclonal

**CONCENTRATION:** Lot specific

**HOST/ISOTYPE:** Recombinant / IgG1, kappa

**SOURCE:** CHO cells

**IMMUNOGEN:** Human IL-1 $\beta$

**PURIFICATION:** Protein A purified

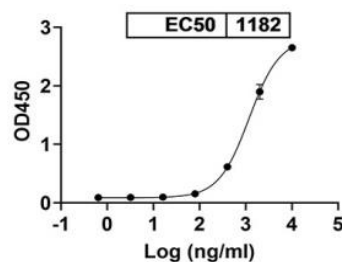
**FORM:** Liquid

**FORMULATION:** In PBS, pH 7.5

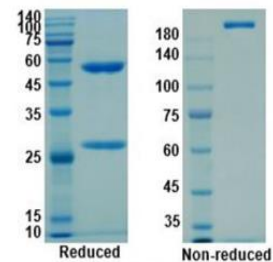
**SPECIES REACTIVITY:** Human

**STORAGE CONDITIONS:** Store at -80 °C. Avoid freeze/thaw cycles

This information is only intended as a guide. The optimal dilutions must be determined by the user



Direct ELISA shows that Anti-IL-1 $\beta$  (Canakinumab), Human IgG1 Antibody can bind to immobilized human IL-1 $\beta$ . EC50 = 1182 ng/ml



SDS-PAGE Analysis to assess purity and integrity of Anti-IL-1 $\beta$  (Canakinumab), Human IgG1 Antibody

## RELATED PRODUCTS:

Anti-IL-6R $\alpha$  (Sarilumab), Human IgG1 Antibody (A2133)  
 Anti-PD-1 (Spartalizumab) humanized Antibody (A2131)  
 Anti-IL-2R alpha (Daclizumab), Human IgG1 Antibody (A1099)  
 Anti-IL-2R alpha (CD25) (Basiliximab), Human IgG1 Antibody (A1098)  
 Anti-IL-6 receptor (Tocilizumab), Human IgG1 Antibody (A1447)

**FOR RESEARCH USE ONLY! Not to be used on humans.**