

# Anti-CD4 (Ibalizumab), Humanized Antibody

**CATALOG NO.:** A2251-100 (100 µg)

**BACKGROUND DESCRIPTION:** The research-grade biosimilar is a humanized monoclonal antibody that targets CD4. CD4 is a primary receptor for the human immunodeficiency virus (HIV-1). HIV-1 enters target cells by binding to CD4 via envelope glycoprotein (gp120). As a result, the CD4/gp120 complex enables the binding of gp120 to another cell receptor CCR5 or CXCR4. This interaction allows gp120 mediated fusion of viral envelope with the target cell membrane. The monoclonal antibody does inhibit the interaction of gp120 with CD4; it binds to an epitope located in domain 2 of the extracellular portion of CD4. This binding induces a conformational change and prevents the binding of gp120 with CCR5 or CXCR4. The antibody belongs to the sub-class of HIV drugs called entry inhibitors or post attachment inhibitors. The original monoclonal antibody is approved by the FDA either alone or in combination with other antiretroviral drugs to treat patients with multi-drug resistance to HIV-1

**ALTERNATE NAMES:** CD4mut, CD4, CD4 Molecule, T-Cell Surface Glycoprotein CD4, T-Cell Surface Antigen T4/Leu-3, CD4 Antigen (P55), CD4 Receptor, CD4 Antigen

**ANTIBODY TYPE:** Monoclonal

**HOST/ISOTYPE:** Recombinant / IgG4, kappa

**SOURCE:** CHO cells

**IMMUNOGEN:** Human CD4

**CAS NUMBER:** 680188-33-4

**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**

**RELATED PRODUCTS:**

Anti-CD40L (Ruplizumab), Human IgG1 Antibody (A1094)  
 Anti-CD41 (Abciximab), Rabbit IgG, kappa Antibody (A2006)  
 Anti-CD3 epsilon (Muromonab), Mouse IgG2a, kappa Antibody (A2008)  
 Anti-CD4 (Clenoliximab), Human IgG4 Antibody (A1091)  
 Anti-CD4 (Campath-9H), Rabbit IgG, kappa Antibody (A2012)

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