

Anti-CD38 (Isatuximab) Humanized Antibody

04/21

CATALOG NO.: **A2319-50 (50 µg)**
 A2319-100 (100 µg)

BACKGROUND DESCRIPTION: The research-grade biosimilar is a human IgG1 kappa monoclonal antibody that targets CD38, a type II transmembrane glycoprotein that is expressed on lymphoid cells, myeloid cells, and non-hematopoietic cells and performs several cell signaling functions. It is overexpressed on multiple myeloma cells. The antibody binds to CD38 and induces tumor cell death via diverse mechanisms such as antibody-dependent cell-mediated cytotoxicity (ADCC), complement-dependent cytotoxicity (CDC) and antibody-dependent cellular phagocytosis. Antibody-dependent cellular cytotoxicity is mediated by the binding of the Fc region of the antibody with FcR of NK cells; complement-dependent cytotoxicity is mediated by the binding of the Fc region of the antibody with C1q, followed by the initiation of the complement cascade; antibody-dependent cellular phagocytosis is mediated by binding of the Fc region of the antibody with the FcR of the macrophage. The original biosimilar was approved for the treatment of multiple myeloma in 2020.

ALTERNATE NAMES: ADPRC1; cADPr hydrolase 1; T10; Cluster of differentiation 38; CD38 Antigen (P45)

ANTIBODY TYPE: Monoclonal

HOST/ISOTYPE: Humanized IgG1-kappa

SOURCE: CHO cells

IMMUNOGEN: Human CD38

FORM: Liquid

FORMULATION: In PBS pH 7.5

SPECIES REACTIVITY: Human

STORAGE CONDITIONS: Aliquot and store at -20 °C or -80 °C. Avoid repeated freeze-thaw cycles

APPLICATIONS AND USAGE: *In vitro* studies

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

RELATED PRODUCTS:

Anti-CTLA-4 (Tremelimumab), Human IgG2 Antibody (Cat. No. A2163)
 Anti-CD38 (Daratumumab), Human IgG1 Antibody (Cat. No. A2151)
 Anti-CD80 (Galiximab), Human IgG1, lambda Antibody (Cat. No. A2011)
 Anti-Carcinoembryonic antigen (Arcitumomab), Human IgG1 Antibody (Cat. No. A1096)
 Anti-CD4 (Campath-9H), Rabbit IgG, kappa Antibody (Cat. No. A2012)

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