Human CD38 (Research Grade Daratumumab Biosimilar) Antibody

Recombinant Monoclonal Human IgG_1 Clone # Hu208

Catalog Number: MAB11493

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CD38 in direct ELISAs.
Source	Recombinant Monoclonal Human IgG_1 Clone # Hu208
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human CD38 Met1-Ile300 Accession # P28907
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

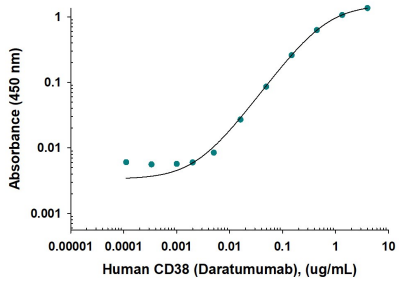
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

ELISA	This antibody functions as an ELISA detection antibody for the specific antigen in direct ELISA. Colorimetric detection is performed after addition of a suitable substrate.

DATA

ELISA



Human CD38 ELISA Standard Curve Direct ELISA binding curve demonstrating the recognition of Human Anti-Human CD38 (Research Grade Daratumumab Biosimilar) Monoclonal Antibody (Catalog # MAB11493) to CD38. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A goat anti-human HRP conjugate was used for detection.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

CD38, also known as ADP-ribosyl cyclase, is a Type II integral membrane protein. The enzyme is able to transform $NAD(P)^+$ into three different products with calcium mobilizing ability, cyclic ADP-ribose, $NAADP^+$, and ADP-ribose (1). CD38 is expressed in B and T lymphocytes, osteoclasts, and in cardiac, pancreatic, liver and kidney cells (2, 3). Through its production of cyclic ADP-ribose, CD38 modulates calcium-mediated signal transduction in many types of cells, including neutrophils and pancreatic β cells (4, 5). Bio-Techne's Daratumumab biosimilar is produced using the full-length amino acid sequence which is identical to that of the original therapeutic antibody.

References:

1. Schuber, F. and F.E. Lund (2004) Curr. Mol. Med. **4**:249.
2. Jackson, D.G. and J.I. Bell (1990) J. Immunol. **144**:2811.
3. Sun, L. *et al.* (1999) J. Cell Biol. **146**:1161.
4. Partida-Sanchez, S. *et al.* (2001) Nature Med. **7**:1209.
5. Kato, I. *et al.* (1995) J. Biol. Chem. **270**:30045.

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