

ORDERING INFORMATION

Catalog Number: MAB1689

Clone: 248310

Lot Number: UHG01

Size: 500 μg

Formulation: 0.2 μm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human CD58

Immunogen: NS0-derived rhCD58 extracellular domain

Ig class: mouse IgG₂₈

Recommended Applications: Western blot Flow cytometry

Other Application: Direct ELISA

Monoclonal Anti-human CD58/LFA-3 Antibody

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human CD58 (rhCD58) extracellular domain. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. CD58, also named Lymphocyte Function Associated Antigen 3 (LFA-3), is a member of the CD2 family of cell surface molecules. It is expressed in hematopoietic and non-hematopoietic cell lineages. CD58 binds to CD2 and induces T cell activation.

Formulation

Lyophilized from a 0.2 μ m filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be $500 \ \mu$ g/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

Specificity

This antibody was selected for its ability to detect human CD58 in direct ELISAs, western blots and flow cytometry experiments.

Applications

Western Blot - This antibody can be used at $1 - 2 \mu g/mL$ with the appropriate secondary reagents to detect human CD58. Using a colorimetric detection system, the detection limit for rhCD58 is approximately 5 ng/lane under non-reducing and reducing conditions. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

Flow Cytometry - Dilute this antibody to 25 µg/mL and add 10 µL of the diluted solution to 1-2.5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled monoclonal antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as goat anti-mouse IgG conjugated to a fluorochrome.

Direct ELISA - This antibody can be used at 0.5 - 1.0 μ g/mL with the appropriate secondary reagents to detect human CD58. The detection limit for rhCD58 is approximately 5 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

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