



Monoclonal Anti-human MFG-E8 Antibody

ORDERING INFORMATION

Catalog Number: MAB2767

Clone: 278901

Lot Number: VHM02

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human MFG-E8

Immunogen: NS0-derived rhMFG-E8

Ig class: mouse IgG_{2A}

Recommended Application:
Western blot

Other Application:
Direct ELISA

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 Milk Fat Globule EGF factor 8 (rhMFG-E8). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. MFG-E8, originally identified as a product of lactating mammary glands, is also secreted by activated macrophages and immature dendritic cells. MFG-E8 functions as an opsonin by binding phosphatidylserine on apoptotic cells and enhancing their phagocytosis.

Formulation

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

Reconstitution

Reconstitute with sterile PBS. If 0.2 mL of PBS is used, the antibody concentration will be 500 µg/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 MFG-E8 in direct ELISAs and western blots. In these formats, this antibody does not cross-react with rhC1r, rhC1s, rhC2, or rmMFG-E8.

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human MFG-E8. Using a colorimetric detection system, the detection limit for rhMFG-E8 is approximately 25 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.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human MFG-E8. The detection limit for rhMFG-E8 is approximately 5 ng/well.

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