

Product Information

Monoclonal Anti-Hepatocyte Growth Factor

Clone 24516

produced in mouse, purified immunoglobulin

Catalog Number **H0665**

Product Description

Monoclonal Anti-Hepatocyte Growth Factor (HGF) (mouse IgG1 isotype) is purified from a hybridoma produced by the fusion of mouse myeloma cells and B cells from mice immunized with recombinant human Hepatocyte Growth Factor (GenID 3082) expressed and purified from S/21 insect cells. The antibody is purified by Protein A affinity chromatography.

Monoclonal Anti-Hepatocyte Growth Factor recognizes human Hepatocyte Growth Factor. Applications include immunoblotting and ELISA. This antibody was selected for use as a capture antibody in human HGF sandwich ELISAs. In this format, less than 0.25% cross-reactivity was observed with recombinant human MSP (Macrophage Stimulating Protein).

Hepatocyte Growth Factor, also known as Scatter Factor (SF) and Hepatopoietin A, is a pleiotropic growth factor produced by mesodermally derived cells, such as Kupfer cells/macrophages, endothelial cells, and hepatic fat storing cells. HGF stimulates hepatocytes and other epithelial and endothelial cells to various biological actions, including mitogenic, morphogenic, and motogenic activity.¹⁻³

Reagent

Supplied lyophilized from a 0.2 µm filtered solution of phosphate buffered saline with 5% trehalose.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

To one vial of lyophilized powder, add 1 mL of 0.2 µm filtered phosphate buffered saline to produce a 0.5 mg/mL stock solution of antibody. If aseptic technique is used, no further filtration should be necessary for use in cell culture environments.

Storage/Stability

Prior to reconstitution, store at -20 °C. Reconstituted product may be stored at 2-8 °C for up to one month. For extended storage, freeze in working aliquots at -20 °C. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

Product Profile

Immunoblotting: a working concentration of 1-2 µg/mL is recommended. Using a colorimetric detection system, the detection limit for recombinant human HGF is ~1 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended.

Capture ELISA: this product can be used as a capture antibody in a human HGF ELISA in combination with biotinylated, polyclonal detection antibody. Using plates coated with 100 µL/well of the capture antibody at 2-8 µg/mL, in combination with 100 µL/well of the detection antibody, an ELISA for sample volumes of 100 µL can be obtained. To arrive at the optimal dose range for this ELISA, set up a two-fold dilution series of the protein standard starting with 8 ng/mL.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

References

1. Nakamura, T., et al., *Proc. Natl. Acad. Sci. USA*, **83**, 6489 (1986).
2. Strain, A. J., *J. Endocrinol.*, **137**, 1 (1993).
3. Stoker, M., et al., *Nature*, **327**, 239 (1987).

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