

## Product Information

### Anti-Hepatocyte Growth Factor

produced in goat, affinity isolated antibody

Catalog Number **H0540**

#### Product Description

Anti-Hepatocyte Growth Factor (HGF) is produced in goat using as immunogen recombinant mouse Hepatocyte Growth Factor (GenelD 15234) expressed and purified from NSO cells. The antibody is purified using mouse HGF affinity chromatography.

Anti-Hepatocyte Growth Factor recognizes murine Hepatocyte Growth Factor. Applications include immunoblotting, immunohistochemistry, and ELISA. Based on capture ELISA, less than 0.5% cross-reactivity is observed with rhHGF, rhHGF R, rmHGF R, rhHGF-A and rmHGF-A.

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.<sup>1-3</sup>

#### 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 0.5 mL of 0.2 µm filtered PBS to produce a 0.2 mg/mL stock solution. 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 0.1-0.2 µg/mL is recommended. The detection limit for recombinant mouse HGF is ~5 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry: a working concentration of 5-15 µg/mL is recommended using cells and tissues.

Capture ELISA: this product can be used as a capture reagent in a mouse HGF sandwich immunoassay in combination with biotinylated, mouse HGF detection antibody and recombinant mouse HGF as the standard. The suggested coating concentration range is 0.2-0.8 µg/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., Endocrinol., **137**, 1 (1993).
3. Stoker, M., et al., Nature, **327**, 239 (1987).

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