

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human HGF in Western blots. In Western blots, no-cross reactivity with recombinant mouse HGF or recombinant canine HGF is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 24612
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human HGF Gln32-Ser728 Accession # P14210
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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 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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below
Neutralization		Measured by its ability to neutralize HGF-induced proliferation in the 4MBr-5 rhesus monkey epithelial cell line. The Neutralization Dose (ND ₅₀) is typically 0.1-0.3 µg/mL in the presence of 100 ng/mL Recombinant Human HGF.

DATA

Western Blot

Detection of Recombinant Human, Mouse, and Canine HGF by Western Blot. Western blot shows 25 ng of Recombinant Human HGF (Catalog # 294-HG), Recombinant Mouse HGF (Catalog # 2207-HG) and Recombinant Canine HGF (Catalog # 3386-HG). PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human HGF Monoclonal Antibody (Catalog # MAB294) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for HGF at approximately 75 kDa (as indicated). This experiment was conducted under non-reducing conditions and using Immunoblot Buffer Group 3.

Neutralization

Cell Proliferation Induced by HGF and Neutralization by Human HGF Antibody. Recombinant Human HGF (Catalog # 294-HG) stimulates proliferation in the 4MBr-5 rhesus monkey epithelial cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human HGF (100 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human HGF Monoclonal Antibody (Catalog # MAB294). The ND₅₀ is typically 0.1-0.3 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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

HGF, also known as Hepatopoietin A and Scatter Factor, is a liver- and fibroblast-derived soluble protein. It interacts with HGF R to promote mitogenesis and morphogenesis of endothelial and epithelial cells.