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## Anti-human HGF

**Description:** Produced from sera of rabbits immunized with highly pure recombinant human HGF produced in insect cells.

Human Hepatocyte Growth Factor (HGF), also known as scatter factor, is a pleiotrophic cytokine that shows homology to the enzymes of the blood coagulation cascade. It stimulates the motility and invasion of several cancer cell types and can induce angiogenesis. Recently HGF was found to be identical to scatter factor, a fibroblast-derived factor promoting the dissociation of epithelial and vascular endothelial cell colonies in monolayer cell cultures by stimulating cell migration. HGF is synthesized as a biologically inactive single chain precursor, which is cleaved by a specific, extracellular serum serine protease to a fully active heterodimer. This mature, biologically active HGF consists of a disulfide-linked alpha-beta heterodimer of the two cleavage products. Previous studies have shown that single chain and heterodimeric HGF are equally active in *in vitro* assay systems due to either production of the serine protease in cell culture or the presence of the ubiquitous protease in serum.

All biological responses induced by HGF are elicited by binding to its transmembrane tyrosine kinase receptor, which is encoded by the MET proto-oncogene. After autophosphorylation of the receptor different cytoplasmic effectors are activated that bind to the same multifunctional docking site of the receptor. HGF function is essential for normal development. Hepatocytes have to be primed before they can fully respond to HGF. This priming requires cytokines as TNF and IL-6. Recent studies have suggested that HGF synergizes with basic FGF in the induction of angiogenesis.

<b>Host species:</b>	Rabbits
<b>Antigen:</b>	Recombinant human HGF
<b>Purification:</b>	Protein-A Purified
<b>Stabilizer:</b>	none
<b>Buffer:</b>	lyophilized from PBS, pH 7.4 w/o preservative
<b>Formulation:</b>	lyophilized rabbit IgG

**Reconstitution:** The lyophilized IgG is stable at 4°C for at least six months and for greater than a year when kept at -20°C. When reconstituted in sterile water to a concentration of >0.5 mg/ml the antibody is stable for at least six weeks at 2-4°C. **Avoid repeated freeze-thaw cycles.**

### *Applications*

**ELISA:** Use at 1-15 µg/ml.

**Western Analysis:** Use at a concentration of 1-2 µg/ml with the appropriate secondary reagents.

**Immunohistochemistry:** Not investigated so far.

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

**Usage:** Anti-human HGF is offered for research use. Not for drug use. **Not for human use.**

**Catalogue number:** 102-PA62S

**Size:** 100 µg

**\*\*Please note: always centrifuge product before opening vial!\*\***