



## HGF $\alpha$ Polyclonal Antibody

Product Specifications	
<b>Catalog Number:</b>	905-089
<b>Host:</b>	Rabbit
<b>Species Reactivity:</b>	Rat HGF $\alpha$ ; not cross reactive with Human HGF or Rat HGF $\beta$
<b>Applications:</b> <i>The optimal dilution for a specific application must be determined by the investigator</i>	<b>WB:</b> 2-5 $\mu$ g/mL <b>IHC:</b> 2-5 $\mu$ g/mL <i>This antibody can be stained in both frozen sections and formalin fixed paraffin embedded tissues after trypsin treatment by immunohistochemical techniques such as Avidin-Biotin Complex (ABC) Method.</i>
<b>Predicted m.w:</b>	~55 kDa
<b>Concentration:</b>	See product label
<b>Purification:</b>	Peptide affinity
<b>Format:</b>	Lyophilized in PBS, pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> ; reconstitute with 1 mL distilled water
<b>Storage:</b> <i>Shipping conditions may differ from the recommended storage temperature</i>	Store lyophilized at 4°C; store reconstituted at -20°C
<b>Immunogen:</b>	Synthetic peptide for N-Terminal of rat HGF
<b>Related Products :</b>	
905-090	HGF $\alpha$ Polyclonal Antibody
905-163	HGF/SF Monoclonal Antibody (A10)
905-165	HGF/SF Monoclonal Antibody (7-2)
905-696-100	MET/HGFR (phospho-Tyr1234-1235) Monoclonal Antibody (6AT1877)

### Background:

Hepatocyte Growth factor (HGF), the expression of which occurs in normal and malignant mammary epithelium, acts as a mitogen for hepatocytes. HGF appears identical to the scatter factor which destroys epithelial cell adhesion and promotes cell movement. HGF also plays a role in promoting motility and growth of epithelial cells, inducing morphogenesis of epithelial cells, promoting vascularization, and may participate in the growth and metastasis of cancer cells. The first step in the initiation of HGF action depends on its binding to the HGF receptor, a specific cell surface receptor encoded by the proto-oncogene c-Met. Some believe that c-Met mediates both the promotion of growth and motility of HGF. HGF synthesis as a 728 amino acid generates the mature growth factor consisting of a disulfide-linked 55 kDa $\alpha$  and 34 kDa $\beta$  chain.