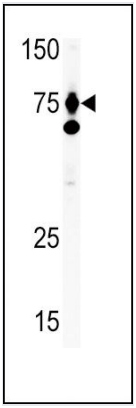
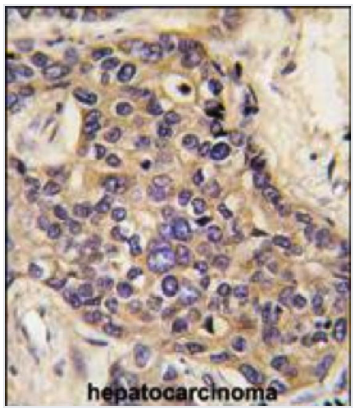
HGF Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

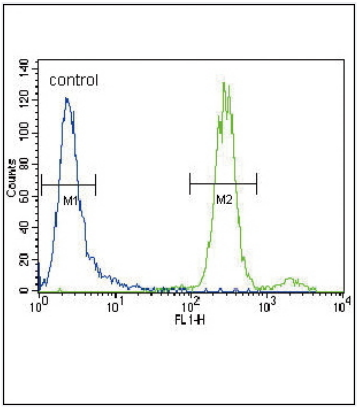
Product Name	HGF, Polyclonal Antibody
Full Product Name	HGF, CT (Hepatocyte Growth Factor, Scatter Factor, SF, Hepatopoeitin A, HGF, HPTA) (MaxLight 405)
Product Gene Name	anti-HGF antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human HGF.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	83,134 Da
Chromosome Location	Chromosome: 7; NC_000007.14 (81700166..81770438, complement). Location: 7q21.1
OMIM	gene 608265
3D Structure	ModBase 3D Structure for P14210
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 521-554 in the C-terminal region of human HGF.
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-HGF antibody	Antibodies; Growth Factors; Cytokines
Applications Tested/Suitable for anti-HGF antibody	Immunohistochemistry (IHC) Paraffin, FLISA, Flow Cytometry (FC/FACS), Western Blot (WB)
Application Notes for anti-HGF antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-HGF antibody	MBS6479996 is an antibody targeting HGF. Also known as HGF, CT (Hepatocyte Growth Factor, Scatter Factor, SF, Hepatopoeitin A, HGF, HPTA) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-HGF antibody	1. Ryugo, M., et al., Transplantation 78(8):1153-1158 (2004). 2. Lyon, M., et al., J. Biol. Chem. 279(42):43560-43567 (2004). 3. He, Y., et al., World J. Gastroenterol. 10(19):2827-2830 (2004). 4. Tjin, E.P., et al., Blood 104(7):2172-2175 (2004). 5. Matsuda-Hashii, Y., et al., Exp. Hematol. 32(10):955-961 (2004).
Other Notes	Small volumes of anti-HGF antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-HGF antibody
Western blot to detect HGF (arrow) in Ramos tissue lysate using H2005-08A.



Immunohistochemistry (IHC) of anti-HGF antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with H2005-08A, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining.



Flow Cytometry (FC/FACS) of anti-HGF antibody
Flow Cytometric analysis of H2005-08A using CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HGF. It may not necessarily be applicable to this product.

NCBI GI #	33859835
NCBI GeneID	3082
NCBI Accession #	NP_000592
UniProt Primary Accession #	P14210
UniProt Secondary Accession #	Q02935; Q13494; Q14519; Q3KRB2; Q8TCE2; Q9BYL9; Q9BYM0; Q9UDU6; A1L3U6
UniProt Related Accession #	P14210
GenBank Nucleotide #	NM_000601
NCBI Official Full Name	hepatocyte growth factor isoform 1 preproprotein
NCBI Official Synonym Full Names	hepatocyte growth factor (hepapoietin A; scatter factor)
NCBI Official Symbol	HGF
NCBI Official Synonym Symbols	SF; HGFB; HPTA; F-TCF; DFNB39
UniProt Protein Name	Hepatocyte growth factor
UniProt Synonym Protein Names	Hepatopoietin-A; Scatter factor; SF

Protein Family	Hepatocyte growth factor
UniProt Gene Name	HGF
UniProt Synonym Gene Names	HPTA; SF
UniProt Entry Name	HGF_HUMAN
NCBI Protein Information	hepatocyte growth factor; hepatopoeitin-A; hepatopoietin-A; lung fibroblast-derived mitogen; fibroblast-derived tumor cytotoxic factor
NCBI Summary for HGF	Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorogenesis, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]
UniProt Comments for HGF	HGF: HGF is a potent mitogen for mature parenchymal hepatocyte cells, seems to be an hepatotrophic factor, and acts as growth factor for a broad spectrum of tissues and cell types. It has no detectable protease activity. Activating ligand for the receptor tyrosine kinase MET by binding and promoting its dimerization. Defects in HGF are the cause of deafness autosomal recessive type 39 (DFNB39). A form of profound prelingual sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Belongs to the peptidase S1 family. Plasminogen subfamily. 6 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Hormone; Cell development/differentiation Chromosomal Location of Human Ortholog: 7q21.1 Cellular Component: extracellular space; membrane; extracellular region Molecular Function: identical protein binding; protein binding; growth factor activity; protein heterodimerization activity; serine-type endopeptidase activity; chemoattractant activity Biological Process: positive regulation of myelination; mitosis; platelet activation; organ regeneration; activation of MAPK activity; myoblast proliferation; hepatocyte growth factor receptor signaling pathway; negative regulation of caspase activity; proteolysis; liver development; positive regulation of phosphoinositide 3-kinase cascade; positive regulation of osteoblast differentiation; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of angiogenesis; platelet degranulation; positive chemotaxis; epithelial to mesenchymal transition; positive regulation of transcription from RNA polymerase II promoter; blood coagulation; hyaluronan metabolic process; positive regulation of cell migration Disease: Deafness, Autosomal Recessive 39
Research Articles on HGF	**1.** mesenchymal stem cells derived from human umbilical cord have the ability to differentiate into dopaminergic neurons after transduction with adenoviral vector expressing HGF.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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