



Rabbit Anti-HGF antibody

SL1025R

Product Name HGF**Chinese Name** 肝细胞生长因子 α 抗体**Alias** HGF alpha; HGFA; F TCF; Hepatocyte growth factor; Fibroblast derived tumor cytotoxic factor; Hepatocyte growth factor precursor; Hepatopoietin A; HPTA; Lung fibroblast derived mitogen; Scatter factor; SF; hepatocyte growth factor alpha-chain; Hepatocyte growth factor alpha chain; HGF_HUMAN.**Research Area** Tumour immunology Growth factors and hormones**Immunogen Species** Rabbit**Clonality** Polyclonal**React Species** Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)
WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 (Paraffin sections need antigen repair)
Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.**Theoretical molecular weight** 54/80kDa**Cellular localization** Secretory protein**Form** Liquid**Concentration** 1mg/ml**immunogen** KLH conjugated synthetic peptide derived from human HGF alpha: 201-300/723**Lsotype** IgG**Purification** affinity purified by Protein A**Buffer Solution** Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)1M TBS(pH7.4) with 1% BSA,

Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,Rabbit,Sheep,GuineaPig)3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

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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, tumorigenesis, 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 lasminogen 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].

Function:

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.

Subunit:

Dimer of an alpha chain and a beta chain linked by a disulfide bond.

**Product
Detail**

DISEASE:

Defects in HGF are the cause of deafness autosomal recessive type 39 (DFNB39) [MIM:608265]. 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.

Similarity:

Belongs to the peptidase S1 family. Plasminogen subfamily.
Contains 4 kringle domains.
Contains 1 PAN domain.
Contains 1 peptidase S1 domain.

SWISS:

P14210

Gene ID:

3082

Database links:

[Entrez Gene: 3082](#) Human

[Entrez Gene: 282879](#) Cow

[Entrez Gene: 15234](#) Mouse

[Entrez Gene: 24446](#) Rat

[Omim: 142409](#) Human

[SwissProt: Q9BH09](#) Cat

[SwissProt: Q76BS1](#) Cow

[SwissProt: Q867B7](#) Dog

[SwissProt: P14210](#) Human

[SwissProt: Q08048](#) Mouse

[SwissProt: P17945](#) Rat

[Unigene: 396530](#) Human

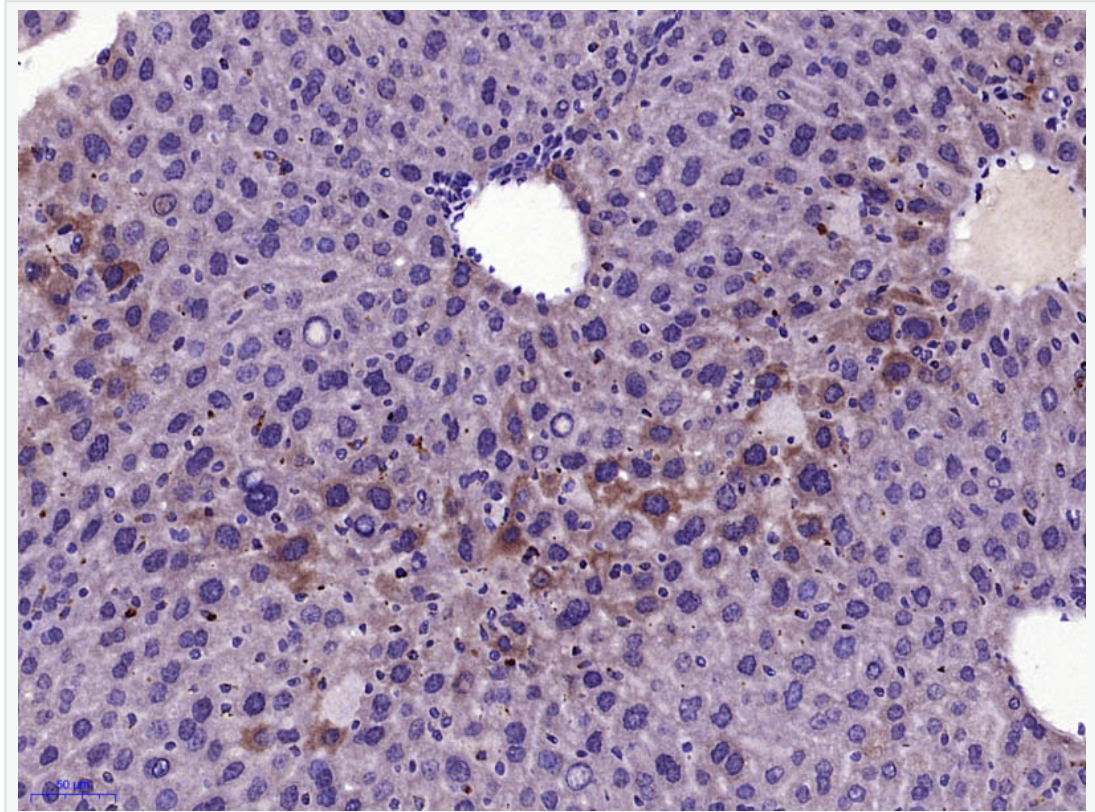
[Unigene: 267078](#) Mouse

[Unigene: 10468](#) Rat

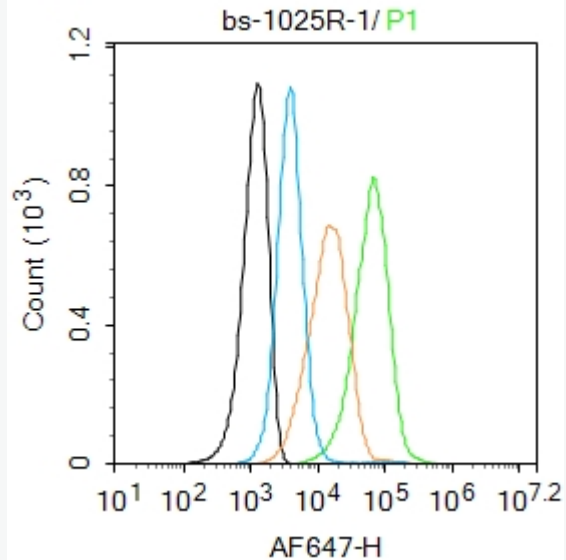
肝细胞生长因子（HGF）是一种多肽生长因子，具有促进包括肝细胞、epithelial cells、endothelial cells、造血细胞等多种类型细胞的生长、迁移和形态发生的作用。它还参与多种细胞的增殖、迁移，对各类 Tumour 的侵袭转移有着重要的诱导作用。

HGF 除了由肝脏大量产生并释放进入血液，还可从胚胎肺成纤维细胞株中分离得到，因此又称扩散因子（scatter factor）或称肺成纤维细胞衍生生长因子（fibroblast-derived growth factor）。

**Product
Picture**



Paraformaldehyde-fixed, paraffin embedded (Mouse liver); Antigen retrieval by microwave in sodium citrate buffer (pH6.0) ; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (3% BSA) at RT for 30min; Antibody incubation with (HGF) Polyclonal Antibody, Unconjugated (SL1025R) at 1:400 overnight at 4°C, followed by conjugation to the secondary antibody (labeled with HRP)and DAB staining.



Blank control:U937.

Primary Antibody (green line): Rabbit Anti-HGF antibody (SL1025R)

Dilution: 1 μ g /10⁶ cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF647

Dilution: 1 μ g /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.