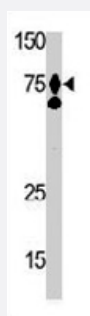


HGF polyclonal antibody

Catalog # PAB3683

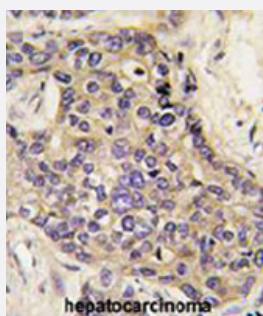
Size 400 uL

Applications



Western Blot (Cell lysate)

The HGF polyclonal antibody (Cat # PAB3683) is used in Western blot to detect HGF in Ramos cell lysate. HGF (arrow) was detected using the purified polyclonal antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma reacted with HGF polyclonal antibody (Cat # PAB3683), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of HGF.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 521-554 at C-terminus of human HGF.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Saturated Ammonium Sulfate (SAS) precipitation

Recommend Usage	Flow Cytometry (1:10-50) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-100) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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- Flow Cytometry

Gene Info — HGF

Entrez GeneID	3082
Protein Accession#	NP_000592; P14210
Gene Name	HGF
Gene Alias	F-TCF, HGFB, HPTA, SF
Gene Description	hepatocyte growth factor (hepapoietin A; scatter factor)
Omim ID	142409
Gene Ontology	Hyperlink

Gene Summary

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 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]

Other Designations

fibroblast-derived tumor cytotoxic factor|hepatocyte growth factor|hepatopoietin A|lung fibroblast-derived mitogen|scatter factor

Publication Reference

- [Co-expression of hepatocyte growth factor \(HGF\) and c-Met predicts peritoneal dissemination established by autocrine HGF/c-Met signaling in gastric cancer.](#)

Toiyama Y, Yasuda H, Saigusa S, Matsushita K, Fujikawa H, Tanaka K, Mohri Y, Inoue Y, Ajay G, Kusunoki M.

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Application: IHC-P, Human, Human gastric cancer

- [Myocardial protective effect of human recombinant hepatocyte growth factor for prolonged heart graft preservation in rats.](#)

Ryugo M, Sawa Y, Ono M, Fukushima N, Aleshin AN, Mizuno S, Nakamura T, Matsuda H.

Transplantation 2004 Oct; 78(8):1153.

- [Autocrine expression of hepatocyte growth factor and its cytoprotective effect on hepatocyte poisoning.](#)

He Y, Zhou J, Dou KF, Chen Y, Yan QG, Li HM.

World Journal of Gastroenterology 2004 Oct; 10(19):2827.

- [The interactions of hepatocyte growth factor/scatter factor and its NK1 and NK2 variants with glycosaminoglycans using a modified gel mobility shift assay. Elucidation of the minimal size of binding and activatory oligosaccharides.](#)

Lyon M, Deakin JA, Lietha D, Gherardi E, Gallagher JT.

The Journal of Biological Chemistry 2004 Oct; 279(42):43560.

Pathway

- [Cytokine-cytokine receptor interaction](#)

- [Focal adhesion](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hepatitis](#)
- [Hyperparathyroidism](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Leukemia](#)
- [Meningeal Neoplasms](#)

- [Meningioma](#)
- [Myopia](#)
- [Obesity](#)
- [Vitiligo](#)