HGF (Human) ELISA Kit

Catalog # KA0343 Size 1 Kit

Specification

Product Description	HGF (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human HGF.
Suitable Sample	Cell Culture Supernatant, Plasma (EDTA, Citrate), Serum
Sample Volume	100 uL
Label	HRP-conjugated
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	125 to 8000 pg/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles.

Applications

- Quantification

Gene Info — HGF

Entrez GeneID	3082
Gene Name	HGF
Gene Alias	F-TCF, HGFB, HPTA, SF

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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 tyr osine 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 i nactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa be ta-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 detecta ble protease activity. Alternative splicing of this gene produces multiple transcript variants encodi ng different isoforms. [provided by RefSeq
Other Designations	fibroblast-derived tumor cytotoxic factor|hepatocyte growth factor|hepatopoietin A|lung fibroblast-d erived mitogen|scatter factor

Publication Reference

- Biochemical and Immunomorphological Evaluation of Hepatocyte Growth Factor and c-Met Pathway in Patients with Critical Limb Ischemia.

  Vasuri F, Fittipaldi S, Abualhin M, Degiovanni A, Gargiulo M, Stella A, Pasquinelli G.

  European Journal of Vascular and Endovascular Surgery 2014 Oct; 48(4):430.

  Application: ELISA, Human, Serum

- Localisation of hepatocyte growth factor and its receptor (c-met) protein and mRNA in human term placenta.

  Kilby MD, Afford S, Li XF, Strain AJ, Ahmed A, Whittle MJ.

  Growth Factors 1996 Jan; 13(1-2):133.

- Molecular cloning and expression of human hepatocyte growth factor.

  Nakamura T, Nishizawa T, Hagiya M, Seki T, Shimonishi M, Sugimura A, Tashiro K, Shimizu S.

  Nature 1989 Nov; 342(6248):440.

- Molecular cloning and sequence analysis of cDNA for human hepatocyte growth factor.

  Miyazawa K, Tsubouchi H, Naka D, Takahashi K, Okigaki M, Arakaki N, Nakayama H, Hirono S, Sakiyama O, Takahashi K, et al..

  Biochemical and Biophysical Research Communications 1989 Sep; 163(2):967.

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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

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- Hypertension
- Kidney Failure
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Myopia
- Obesity
- Vitiligo

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