Datasheet for ABIN115703

anti-HGF antibody

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Overview

Quantity:	0.2 mg
Target:	HGF
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HGF antibody is un-conjugated
Application:	Western Blotting (WB), Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Recombinant human HGF
Specificity:	The antibody recognizes human HGF. Other species not tested.
Purification:	Protein A chromatography

Target Details

Target:	HGF
Alternative Name:	Hepatocyte Growth Factor / HGF (HGF Products)
Background:	Human Hepatocyte Growth Factor (HGF), also known as scatter factor, is a pleiotrophic cytokine that shows homology to the enzymes of the blood coagulation cascade. It stimulates the motility and invasion of several cancer cell types and can induce angiogenesis. Recently HGF was found to be identical to scatter factor, a fibroblast-derived factor promoting the dissociation of epithelial and vascular endothelial cell colonies in monolayer cell cultures by

Target Details

	stimulating cell migration. HGF is synthesized as a biologically inactive single chain precursor, which is cleaved by a specific, extracellular serum serine protease to a fully active heterodimer. This mature, biologically active HGF consists of a disulfide-linked alpha-beta heterodimer of the two cleavage products. Previous studies have shown that single chain and heterodimeric HGF are equally active in in vitro assay systems due to either production of the serine protease in cell culture or the presence of the ubiquitious protease in serum. All biological responses induced by HGF are elicited by binding to its transmembrane tyrosine kinase receptor, which is encoded by the MET proto-oncogene. After autophosphorylation of the receptor different cytoplasmatic effectors are activated that bind to the same multifunctional docking site of the receptor. HGF function is essential for normal development. Hepatocytes have to be primed before they can fully respond to HGF. This priming requires cytokines as TNF and IL-6. Recent studies have suggested that HGF synergizes with basic FGF in the induction of angiogenesis.Synonyms: HPTA, Hepatopoeitin-A, Scatter factor
Gene ID:	3082
NCBI Accession:	NP_000592
UniProt:	P14210
Pathways:	RTK Signaling, Carbohydrate Homeostasis, Glycosaminoglycan Metabolic Process, Synaptic Membrane, Signaling of Hepatocyte Growth Factor Receptor

Application Details

Application Notes:	ELISA: 1-15 µg/mL. Western blot: 1-2 µg/mL. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Reconstitution:	Restore in sterile water / PBS to a concentration of > 0.5 mg/mL.
Buffer:	PBS, pH 7.4, without preservative or stabilizer
Preservative:	Without preservative
Handling Advice:	Avoid repeated freezing and thawing. When reconstituted to a concentration of > 0.5 mg/ml the antibody is stable for six weeks at 2-8°C.
Storage:	4 °C/-20 °C

Handling

Storage Comment:	The lyophilized antibody can be stored at 2-8 °C for up to one month and at -20 °C for one year from despatch.
Expiry Date:	12 months