

HGF Recombinant Rabbit mAb

Catalog # AP100297

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P14210
Other Accession	P14210
Reactivity	Human
Host	Rabbit
Clonality	Recombinant
Calculated MW	83134
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the peptidase S1 family. Plasminogen subfamily. Contains 4 kringle domains. Contains 1 PAN domain. Contains 1 peptidase S1 domain.
SUBUNIT	Dimer of an alpha chain and a beta chain linked by a disulfide bond.
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.
Background Descriptions	This gene encodes a protein that binds to the hepatocyte growth factor receptor to regulate cell growth, cell motility and morphogenesis in numerous cell and tissue types. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate alpha and beta chains, which form the mature heterodimer. This protein is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. This protein also plays a role in angiogenesis, tumorigenesis, and tissue regeneration. Although the encoded protein is a member of the peptidase S1 family of serine proteases, it lacks peptidase activity. Mutations in this gene are associated with nonsyndromic hearing loss. [provided by RefSeq, Nov 2015],

Additional Information

Gene ID	3082
Other Names	DFNB39; F-TCF; HGFB; HPTA; SF; C230052L06Rik; HGF/SF; NK1; NK2; SF/HGF; HGF_FELCA; HGF; Hepatopoietin-A; Scatter factor (SF); HGF_BOVIN; HGF_CANLF; HGF_HUMAN; HGF_MOUSE; HGF_RAT; hepatocyte growth factor; deafness, autosomal recessive 39; hepatocyte growth factor (hepatopoietin A; scatter factor); hepatopoietin A; fibroblast-derived tumor cytotoxic factor; scatter factor; lung fibroblast-derived mitogen
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	HGF
Synonyms	HPTA
Function	Potent mitogen for mature parenchymal hepatocyte cells, seems to be a hepatotrophic factor, and acts as a growth factor for a broad spectrum of tissues and cell types (PubMed: 20624990). Activating ligand for the receptor tyrosine kinase MET by binding to it and promoting its dimerization (PubMed: 15167892 , PubMed: 20977675). Activates MAPK signaling following TMPRSS13 cleavage and activation (PubMed: 20977675).

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