Datasheet for ABIN3042443

anti-HGF antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	HGF
Binding Specificity:	AA 33-64, N-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HGF antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Hepatocyte growth factor(HGF) detection. Tested with WB in Mouse.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of mouse HGF (33-64aa QKKRRNTLHEFKKSAKTTLTKEDPLLKIKTKK), different from the related human sequence by five amino acids, and from the related rat sequence by one amino acid.
Sequence:	QKKRRNTLHE FKKSAKTTLT KEDPLLKIKT KK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Hepatocyte growth factor(HGF) detection. Tested with WB in Mouse. Gene Name: hepatocyte growth factor (hepapoietin A, scatter factor)

Product Details

	Protein Name: Hepatocyte growth factor
Purification:	Immunogen affinity purified.

Target Details

Target:	HGF
Alternative Name:	HGF (HGF Products)
Background:	Hepatocyte growth factor/scatter factor (HGF/SF) is a paracrine cellular growth, motility and morphogenic factor. This gene is mapped to 7q21.11. It is secreted by mesenchymal cells and targets and acts primarily uponepithelial cells and endothelial cells, but also acts on haemopoietic progenitor cells. It has been shown to have a major role in embryonic organ development, specifically in myogenesis, in adult organ regeneration and in wound healing. HGF can regulate cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. HGF also serves as a paracrine mediator to control placental development and growth. HGF was identified as one of the liver sinusoidal endothelial cell-derived paracrine mediators promoting hepatocyte growth. Synonyms: DFNB39 antibody|F TCF antibody|Fibroblast derived tumor cytotoxic factor antibody|Hepatocyte growth factor (hepapoietin A, scatter factor) antibody|Hepatocyte growth factor antibody|Hepatocyte growth factor beta chain antibody|Hepatocyte growth factor precursor antibody|Hepatopoeitin-A antibody|Hepatopoietin A antibody|Hgf antibody|HGF_HUMAN antibody|HGFB antibody|HPTA antibody|Lung fibroblast derived mitogen antibody|OTTHUMP00000161349 antibody|OTTHUMP00000206710 antibody|OTTHUMP00000206711 antibody|OTTHUMP00000206712 antibody|OTTHUMP00000206713 antibody|OTTHUMP00000206730 antibody|Scatter factor antibody|SF antibody
Gene ID:	15234
UniProt:	Q08048
Pathways:	RTK Signaling, Carbohydrate Homeostasis, Glycosaminoglycan Metabolic Process, Synaptic Membrane, Signaling of Hepatocyte Growth Factor Receptor

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, The detection limit for HGF is approximately 0.1 ng/lane under reducing conditions.

Application Details

	Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Fan, Qu, Chu, Gao, Gao, Chen, Tian: "MicroRNA-210 promotes angiogenesis in acute myocardial infarction." in: **Molecular medicine reports**, Vol. 17, Issue 4, pp. 5658-5665, (2018) (PubMed). Yu, He, Jiang, He, Fan, Wang, Geng, Dong: "Expression and tissue distribution of hepatocyte growth factor (HGF) and its receptor (c-Met) in alpacas (Vicugna pacos) skins associated with white and brown coat colors." in: **Acta histochemica**, (2015) (PubMed). Wen, Zhou, Luo, Zhou, Ma: "Pro-osteogenic effects of fibrin glue in treatment of avascular necrosis of the femoral head in vivo by hepatocyte growth factor-transgenic mesenchymal stem cells." in: **Journal of translational medicine**, Vol. 12, pp. 114, (2015) (PubMed).

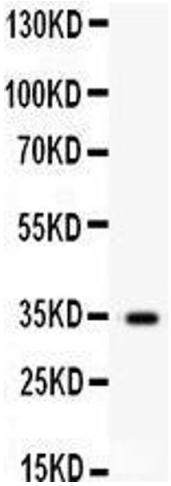
Publications

Zhang, Lv, Yang, Han, Zhang, Zhang, Zong, Gao, Li, Zhao, Li, Yang, Yu, Li, Zhang, Wei: " Corticosterone mediates the inhibitory effect of restraint stress on the migration of mesenchymal stem cell to carbon tetrachloride-induced fibrotic liver by downregulating CXCR4/7 expression." in: **Stem cells and development**, Vol. 24, Issue 5, pp. 587-96, (2015) (PubMed).

Hu, Fang, Qian, Fang, Wang, Wang: "Telmisartan prevents angiotensin II-induced endothelial dysfunction in rabbit aorta via activating HGF/Met system and PPARγ pathway." in: **Fundamental & clinical pharmacology**, Vol. 28, Issue 5, pp. 501-11, (2014) (PubMed).

There are more publications referencing this product on: Product page

Images



Western Blotting

Image 1. Anti- HGF antibody, Western blotting All lanes: Anti HGF at 0.5ug/ml WB: NIH Whole Cell Lysate at 40ug Predicted bind size: 34KD Observed bind size: 34KD