

Datasheet for ABIN388462
anti-HGF antibody (C-Term)



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Overview

Quantity:	400 µL
Target:	HGF
Binding Specificity:	AA 521-554, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HGF antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

Product Details

Immunogen:	This HGF antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 521-554 amino acids from the C-terminal region of human HGF.
Clone:	RB09924
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	HGF
Alternative Name:	HGF (HGF Products)

Target Details

Background:	<p>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.</p> <p>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.</p> <p>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. Transcript Variant: This variant (1) encodes the longest isoform (1). To date, experimental evidence for cleavage of the proprotein into two mature chains has been shown only for isoform 1.</p>
Molecular Weight:	83134
Gene ID:	3082
NCBI Accession:	NP_000592 , NP_001010931 , NP_001010932 , NP_001010933 , NP_001010934
UniProt:	P14210
Pathways:	RTK Signaling , Carbohydrate Homeostasis , Glycosaminoglycan Metabolic Process , Synaptic Membrane , Signaling of Hepatocyte Growth Factor Receptor

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small

Handling

aliquots to prevent freeze-thaw cycles.

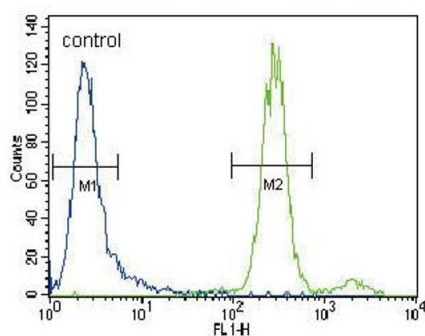
Expiry Date: 6 months

Publications

Product cited in: Phan, Fuentes-Mattei, Wu, Velazquez-Torres, Sircar, Wood, Hai, Jimenez, Cote, Ozsari, Hofmann, Zheng, Verhaak, Pagliaro, Cortez, Lee, Yeung, Habra: "Hepatocyte Growth Factor/cMET Pathway Activation Enhances Cancer Hallmarks in Adrenocortical Carcinoma." in: **Cancer research**, Vol. 75, Issue 19, pp. 4131-42, (2015) ([PubMed](#)).

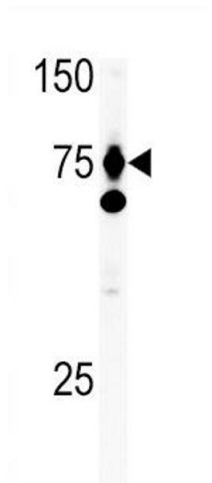
Vogel, Chatterjee, Metzger, Borst, Geisler, Seizer, Müller, Mack, Schumann, Bhiring, Lang, Sorg, Langer, Gawaz et al.: "Activated platelets interfere with recruitment of mesenchymal stem cells to apoptotic cardiac cells via high mobility group box 1/Toll-like receptor 4-mediated down-regulation of hepatocyte growth ..." in: **The Journal of biological chemistry**, Vol. 289, Issue 16, pp. 11068-82, (2014) ([PubMed](#)).

Images



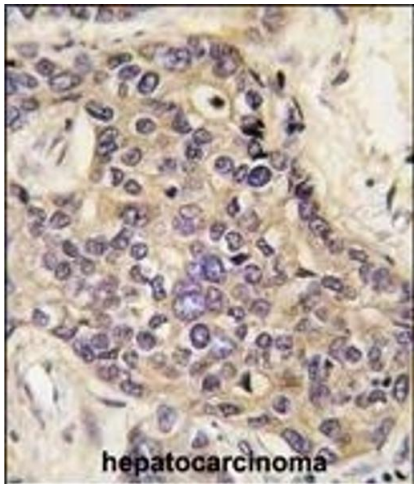
Flow Cytometry

Image 1. HGF Antibody (C-term) (ABIN388462 and ABIN2848889) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. The anti-HGF Pab (ABIN388462 and ABIN2848889) is used in Western blot to detect HGF in Ramos tissue lysate. HGF (arrow) was detected using the purified Pab.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin-embedded human hepatocarcinoma tissue reacted with HGF antibody (C-term) (ABIN388462 and ABIN2848889), 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.