

Anti-HGF Antibody

Catalog # ABO12743

Product Information

Application	WB
Primary Accession	Q08048
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Hepatocyte growth factor(HGF) detection. Tested with WB in Mouse.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	15234
Other Names	Hepatocyte growth factor, Hepatopoietin-A, Scatter factor, SF, Hepatocyte growth factor alpha chain, Hepatocyte growth factor beta chain, Hgf
Calculated MW	82945
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse
Source	Eukaryota
Protein Name	Hepatocyte growth factor
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse HGF (33-64aa QKKRRNTLHEFKKSAKTTLTKEPLLKIKTKK), different from the related human sequence by five amino acids, and from the related rat sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	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.
Sequence Similarities	Belongs to the peptidase S1 family. Plasminogen subfamily.

Protein Information

Name	Hgf
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 (By similarity). Activates MAPK signaling following TMPRSS13 cleavage and activation (By similarity).

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 upon epithelial 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.

Images



Anti- HGF antibody, ABO12743, Western blotting
All lanes:
Anti HGF (ABO12743) at 0.5ug/ml
WB: NIH Whole Cell
Lysate at 40ug
Predicted bind size: 34KD
Observed bind size: 34KD

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