IBL Data Sheet

Code No. 18131

Anti-Human
HGFα (H55) Rabbit IgG Affinity Purify

Volume : 100 µg

Introduction : Hepatocyte Growth factor (HGF) was discovered as a mitogen for hepatocytes. HGF was subsequently found to be identical to the scatter factor, which destroys epithelial cell adhesion and promotes cell movement. Some reports have Hepatocyte Growth factor (HGF) was discovered as a mitogen for hepatocytes. HGF was subsequently found to be identical to the scatter factor, which destroys epithelial cell adhesion and promotes cell movement. Some reports have shown that HGF is expressed in normal and malignant mammary epithelium. HGF has also been reported to promote motility and growth of epithelial cells, to induce morphogenesis of epithelial cells and to promote vascularization. It has been speculated that HGF is involved in the growth and metastasis of cancer cells. The first step in the initiation of HGF action is dependent on its biding to a specific cell surface receptor, the HGF receptor, encoded by the proto-oncogene c-Met. It has been suggested that c-Met mediates both responses, i.e., promotion of growth and motility of HGF.
HGF is synthesized as a 728 amino acid that is processed to generate the mature growth factor consisting of a disulfide-linked 69 kDa α 34 kDa β chain.

Antigen : Synthetic peptide of the N terminal part of Human HGF α chain (PALKIKTKKVNTADQC)

Purification : Purified with antigen peptide

Form : Lyophilized product from 1 % BSA in PBS containing 0.05 % NaN_3

How to use : 1.0 mL deionized water will be added to the product (the conc. comes up 100 µg /mL)

Stability : Lyophilized product, 5 years at 2 - 8 °C
: Solution, 2 years at –20 °C

Application : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after trypsin treatment and frozen sections by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is 2-5 µg/mL, however, the concentration should be optimized by each laboratory.
: This antibody can be used for western blotting in concentration of 2 - 5 µg /mL.

Specificity : Cross reacts with Rat HGFα, but not cross-react with Human HGFβ

Reference :

1. Nakamura T., Nishizawa T., Hagiya M., Seki T., Shimonisi M., Sugimura,A., Shiro K., and Shimizu S. Nature (London) 342, 440-443, 1989
2. Takanami I, Tanana F, Hashizume T, Kikuchi K, Yamamoto Y, Yamamoto T, and Kodaira S. Hepatocyte Growth Factor and c-Met/Hepatocyte Growth Factor Receptor in Pulmonary Adenocarcinomas: An Evaluation of Their Expression as Prognostic Markers. Oncology 53, 392-397, 1996
3. Yamamoto S, Wakimoto H, Aoyagi M, Hirakawa K, and Hamada H. Modulation of motility and proliferation of glioma cells by hepatocyte growthfactor. Jpn. J. Cancer Res. 88: 564-577, 1997

For research use only, not for use in diagnostic procedures.

Distributed by:
Immuno-Biological Laboratories, Inc.
8201 Central Ave NE, Suite P
Minneapolis, MN 55432
Toll-Free: 888-523-1246
Email: info@IBL-America.com
Web: www.IBL-America.com

Immuno-Biological
Laboratories Co., Ltd.