

# NeutraKine®HGF Monoclonal antibody

Catalog Number: 69027-1-Ig

## Basic Information

Catalog Number:

69027-1-Ig

Size:

100ug

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

HZ-1084

GenBank Accession Number:

GeneID (NCBI):

3082

Full Name:

hepatocyte growth factor  
(hepapoietin A; scatter factor)

Purification Method:

Protein G purification

CloneNo.:

2D2B4

## Applications

Tested Applications:

ELISA, Neutralization

Species Specificity:

Human

## Background Information

Hepatocyte growth factor (HGF) is the most potent mitogen of mature hepatocytes in primary culture. HGF is derived from a biologically inactive single chain precursor of 728 amino acids (pro-HGF) localized mostly on the cell surface and in the extracellular matrix. The mature form produced following proteolytic cleavage is composed of a 69-kDa  $\alpha$ -subunit (containing four kringle domains) and the 34 kDa  $\beta$ -subunit, similar to the catalytic domain of serine proteases, but with amino acid substitutions in the active site. HGF is a pleiotropic cytokine which exerts a variety of effects on several cells, being involved in the regulation of many biological processes, such as inflammation, tissue repair, morphogenesis, angiogenesis, tumour propagation, immunomodulation of viral infections and cardio-metabolic activities.

This antibody is used to neutralize the bioactivity of HGF.

## Storage

Storage:

Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at(4°C) for short term or at(-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Storage Buffer:

Sterile PBS.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

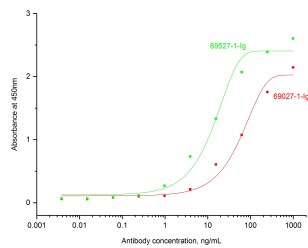
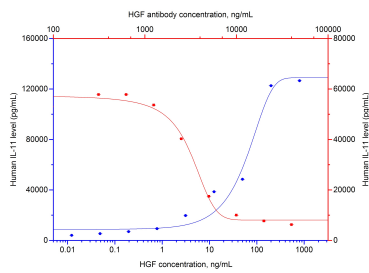
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## Selected Validation Data



Recombinant human HGF (Cat.NO. HZ-1084) stimulates Saos-2 cells (human osteosarcoma cell) produce IL-11 in a dose dependent manner (blue curve, refer to bottom X-Left Y axis). The activity of human HGF (50 ng/mL HZ-1084) is neutralized by mouse anti-human HGF monoclonal antibody 69027-1-Ig (red curve, refer to top X-right Y axis). The ND50 is typically 2-8 $\mu$ g/mL

Indirect ELISA was carried out by coating recombinant Human HGF (Cat.NO. HZ-1084) at 70 ng/well followed by blocking and adding serial diluted Thrombopoietin antibody 69027-1-Ig and 69527-1-Ig respectively. Signal was developed with TMB and stopped by H<sub>2</sub>SO<sub>4</sub>. Signal strength was measured by absorbance at 450 nm.