

For Research Use Only

NeutraKine®HGF Monoclonal antibody



Catalog Number: 69027-1-Ig

Basic Information

Catalog Number: 69027-1-Ig	GenBank Accession Number: GeneID (NCBI): 3082	Purification Method: Protein G purification
Size: 100ug	Full Name: hepatocyte growth factor (hepapoietin A; scatter factor)	CloneNo.: 2D2B4
Source: Mouse		
Isotype: IgG1		
Immunogen Catalog Number: HZ-1084		

Applications

Tested Applications:
Neutralization, ELISA

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 α -subunit (containing four kringle domains) and the 34 kDa β -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.

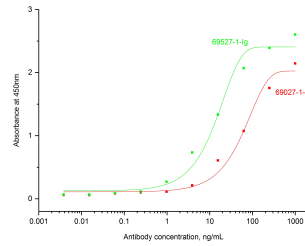
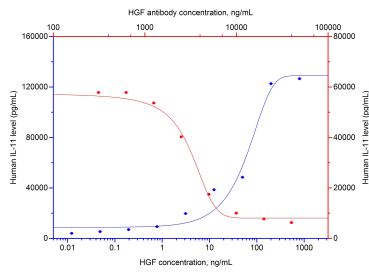
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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 μ 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 H₂SO₄. Signal strength was measured by absorbance at 450 nm.