

For Research Use Only

# Mouse HGF Recombinant antibody, PBS Only (Detector)

Catalog Number:85014-3-PBS



## Basic Information

<b>Catalog Number:</b> 85014-3-PBS	<b>GenBank Accession Number:</b> NM_001289458.1	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 15234	<b>CloneNo.:</b> 242476H8
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q08048-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> hepatocyte growth factor	
<b>Immunogen Catalog Number:</b> EG0675	<b>Calculated MW:</b> 83KD	

## Applications

**Tested Applications:**  
Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
mouse

## 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.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS only, pH7.3

For technical support and original validation data for this product please contact:

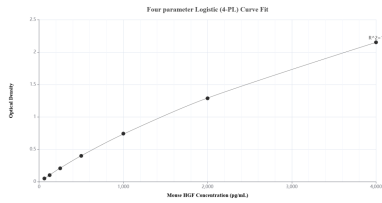
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

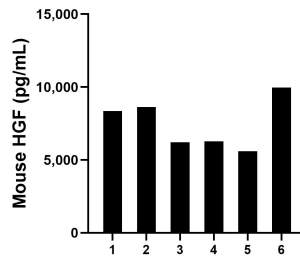
W: [ptgcn.com](http://ptgcn.com)

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

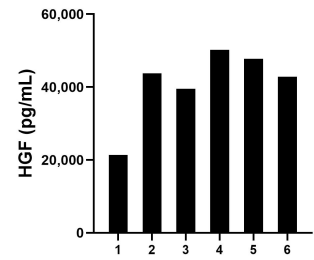
## Selected Validation Data



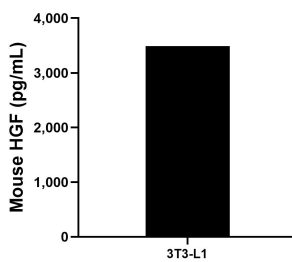
Sandwich ELISA standard curve of MP01760-3, Mouse HGF Recombinant Matched Antibody Pair - PBS only. 85014-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0675. 85014-3-PBS was HRP conjugated as the detection antibody. Range: 62.5-4000 pg/mL



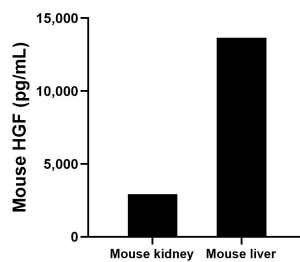
Serum of six mice was measured. The HGF concentration of detected samples was determined to be 7,505.4 pg/mL with a range of 5,590.3-9,962.8 pg/mL



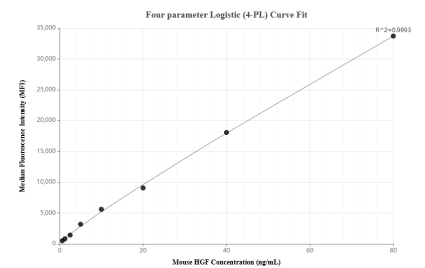
Serum of six rats was measured. The HGF concentration of detected samples was determined to be 40,922.2 pg/mL with a range of 21,345.0-50,183.1 pg/mL



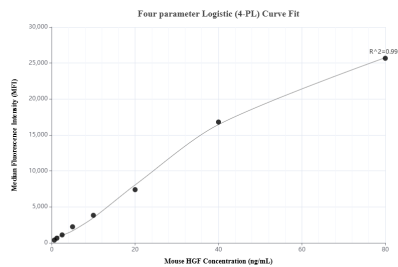
3T3-L1 cells were cultured in DMEM supplemented with 10% fetal bovine serum, 2.5 mM L-glutamine, 100 U/mL penicillin, and 100 µg/mL streptomycin sulfate. An aliquot of the cell culture supernate was removed, assayed for mouse HGF, and measured 3,491.8 pg/mL



The mean HGF concentration was determined to be 2,919.6 pg/mL in mouse kidney tissue extract based on a 3.1 mg/mL extract load and 13,658.8 pg/mL in mouse liver tissue extract based on a 3.7 mg/mL extract load.



Cytometric bead array standard curve of MP01760-1, MOUSE HGF Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85014-1-PBS. Detection antibody: 85014-3-PBS. Standard: Eg0675. Range: 0.625-80 ng/mL



Cytometric bead array standard curve of MP01760-2, MOUSE HGF Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 85014-2-PBS. Detection antibody: 85014-3-PBS. Standard: Eg0675. Range: 0.625-80 ng/mL