

For Research Use Only

# HGS Monoclonal antibody

Catalog Number: 67818-1-Ig



## Basic Information

<b>Catalog Number:</b> 67818-1-Ig	<b>GenBank Accession Number:</b> BC003565	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 9146	<b>CloneNo.:</b> 3B10D6
<b>Source:</b> Mouse	<b>Full Name:</b> hepatocyte growth factor-regulated tyrosine kinase substrate	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:500-1:2000 IF 1:200-1:800
<b>Isotype:</b> IgG2a	<b>Calculated MW:</b> 86 kDa	
<b>Immunogen Catalog Number:</b> AG28610	<b>Observed MW:</b> 110 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Species Specificity:

Human, Mouse, Rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

WB : LNCaP cells, PC-12 cells, Neuro-2a cells, Jurkat cells, A549 cells, HeLa cells, HEK-293 cells, K-562 cells, rat brain tissue, mouse brain tissue, HepG2 cells

IHC : mouse brain tissue,

IF : HepG2 cells,

## Background Information

Hepatocyte growth factor-regulated tyrosine kinase substrate (HGS, synonyms: HRS, ZFYVE8) is a 110 to 115-kDa zinc finger phosphotyrosine protein inducible by stimulation with interleukin 2 (IL-2), granulocyte-macrophage colony-stimulating factor (GM-CSF) as well as hepatocyte growth factor (HGF), and is associated with signal-transducing adaptor molecule (STAM). HGS suppresses DNA synthesis upon stimulation with IL-2 and GM-CSF, counteracting the function of STAM which is critical for cell growth signaling mediated by the cytokines. HGS also interacts with the neurofibromatosis 2 tumor suppressor protein schwannomin/merlin. The growth suppression activity of schwannomin/merlin requires HGS and the binding of schwannomin/merlin to HGS facilitates its ability to function as a tumor suppressor, probably by inhibiting STAT activation.

## Storage

### Storage:

Store at -20°C.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

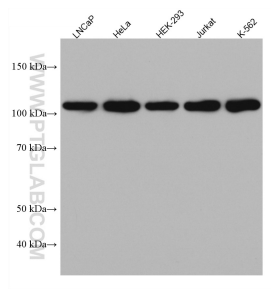
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

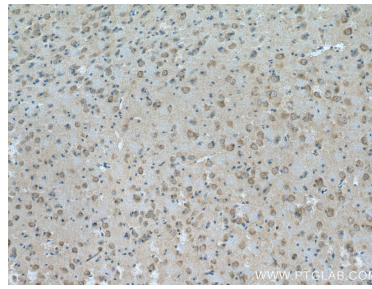
E: proteintech@ptglab.com  
W: ptglab.com

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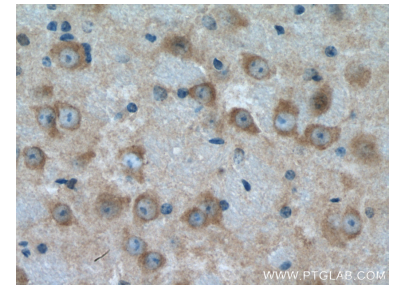
## Selected Validation Data



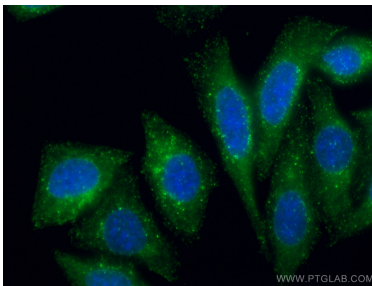
Various lysates were subjected to SDS PAGE followed by western blot with 67818-1-Ig (HGS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67818-1-Ig (HGS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67818-1-Ig (HGS antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HGS antibody (67818-1-Ig, Clone: 3B10D6) at dilution of 1:0 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).