

For Research Use Only

# HGS Polyclonal antibody

Catalog Number: 10390-1-AP

Featured Product

11 Publications



## Basic Information

<b>Catalog Number:</b> 10390-1-AP	<b>GenBank Accession Number:</b> BC003565	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 9146	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> hepatocyte growth factor-regulated tyrosine kinase substrate	<b>IHC 1:50-1:500</b> <b>IF 1:200-1:800</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 86 kDa	
<b>Immunogen Catalog Number:</b> AG0589	<b>Observed MW:</b> 110 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, mouse

**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 :** HeLa cells, K-562 cells, mouse brain tissue, rat brain tissue

**IP :** mouse brain tissue,

**IHC :** human liver tissue, mouse brain tissue

**IF :** HeLa 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Denghui Wei	32958903	Cell Res	WB
Yue-Ming Ling	29042578	Sci Rep	IHC
Jalal M Kazan	34761192	iScience	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

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

Aliquoting is unnecessary for -20°C storage

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

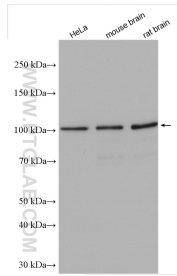
For technical support and original validation data for this product please contact:

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

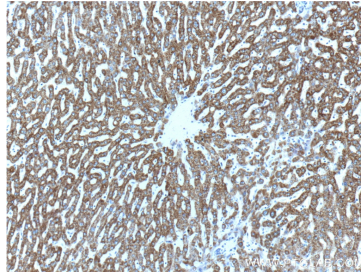
E: proteintech@ptglab.com  
W: ptglab.com

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

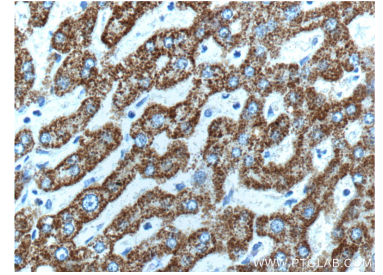
## Selected Validation Data



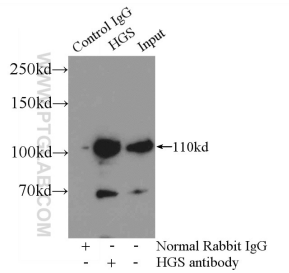
Various lysates were subjected to SDS PAGE followed by western blot with 10390-1-AP (HGS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



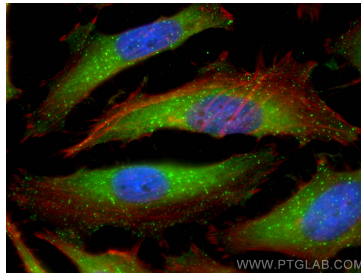
Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10390-1-AP (HGS Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 10390-1-AP (HGS Antibody) at dilution of 1:200 (under 40x lens).



IP Result of anti-HGS (IP:10390-1-AP, 5ug; Detection:10390-1-AP 1:1000) with mouse brain tissue lysate 3000ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using HGS antibody (10390-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).