For Research Use Only

# HGS Polyclonal antibody

Catalog Number:10390-1-AP Featured Product 12 Publications

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## Basic Information

Catalog Number:
10390-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0589

GenBank Accession Number:
BC003565

GeneID (NCBI):
9146

UNIPROT ID:
O14964

Full Name:
hepatocyte growth factor-regulated tyrosine kinase substrate

Calculated MW:
86 kDa

Observed MW:
110 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:200-1:800

## Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF

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/ICC : 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 STAM's function, 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 schwannoma/merlin requires HGS. The binding of schwannoma/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 |

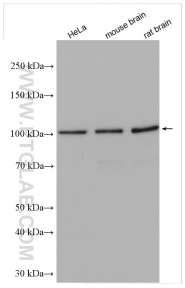
## Storage

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

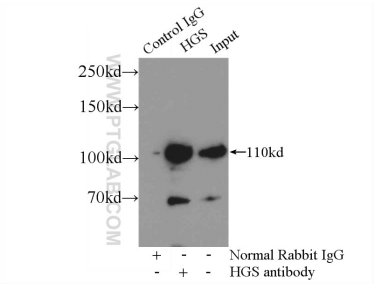
*** 20ul sizes contain 0.1% BSA

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

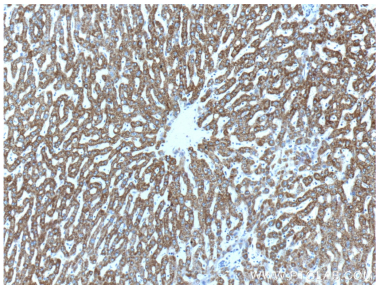
## Selected Validation Data



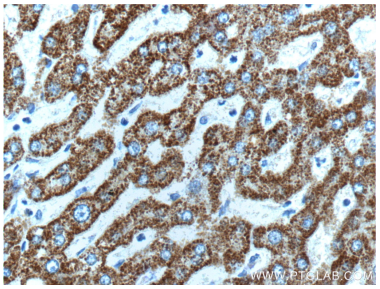

Various lysates were subjected to SDS PAGE followed by western blot with 10390-1-AP (HGS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



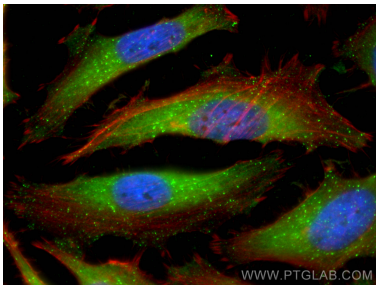

IP result of anti-HGS (IP:10390-1-AP, 5ug; Detection:10390-1-AP 1:1000) with mouse brain tissue lysate 3000ug.




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).




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).