

For Research Use Only

HGS Recombinant monoclonal antibody

Catalog Number: 87420-1-RR



Basic Information

Catalog Number:

87420-1-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

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:

Protein A purification

CloneNo.:

252813G1

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IF/ICC: 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB: HeLa cells, HepG2 cells, A549 cells, K-562 cells, Jurkat cells, Neuro-2a cells, rat brain tissue

IP: mouse brain tissue,

IF/ICC: Saos-2 cells, HeLa cells, 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 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.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

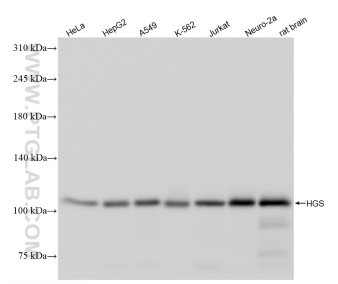
For technical support and original validation data for this product please contact:

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

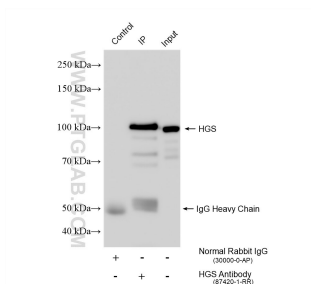
E: proteintech@ptglab.com
W: ptglab.com

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

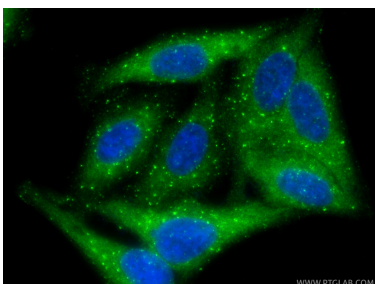
Selected Validation Data



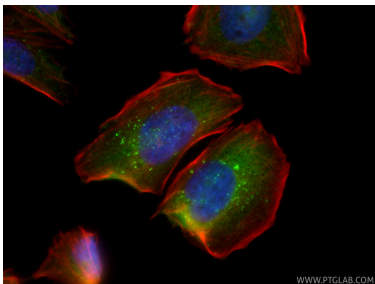
Various lysates were subjected to SDS PAGE followed by western blot with 87420-1-RR (HGS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



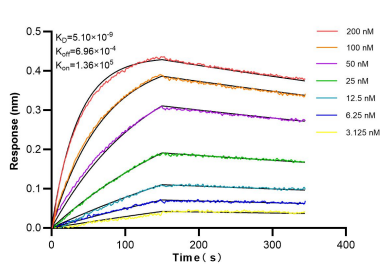
IP result of anti-HGS (IP:87420-1-RR, 4ug; Detection:87420-1-RR 1:3000) with mouse brain tissue lysate 1960 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HGS antibody (87420-1-RR, Clone: 252813G1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed Saos-2 cells using HGS antibody (87420-1-RR, Clone: 252813G1) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 87420-1-RR against Human HGS were performed. The affinity constant is 5.10 nM.