

Basic Information

Catalog Number:

87420-1-RR

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 ug 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:

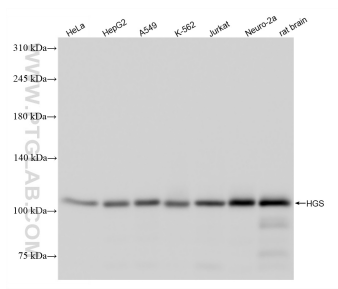
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

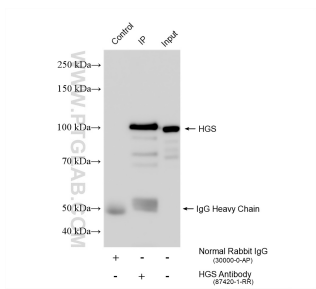
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

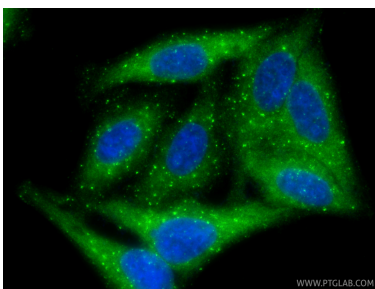
Selected Validation Data



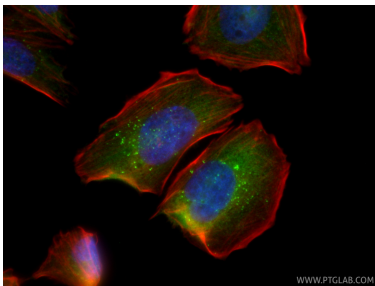
Various lysates were subjected to SDS PAGE followed by western blot with 87420-1-RR (HGS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



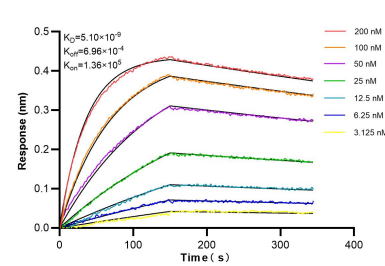
IP result of anti-HGS (IP:87420-1-RR, 4ug; Detection:87420-1-RR 1:3000) with mouse brain tissue lysate 1960 ug.



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.