

For Research Use Only

HGS Recombinant monoclonal antibody, PBS Only

Catalog Number: 87420-1-PBS



Basic Information

Catalog Number: 87420-1-PBS	GenBank Accession Number: BC003565	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 9146	CloneNo.: 252813G1
Source: Rabbit	UNIPROT ID: O14964	
Isotype: IgG	Full Name: hepatocyte growth factor-regulated tyrosine kinase substrate	
Immunogen Catalog Number: AG0589	Calculated MW: 86 kDa	
	Observed MW: 110 kDa	

Applications

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

Species Specificity:
human, mouse, rat

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

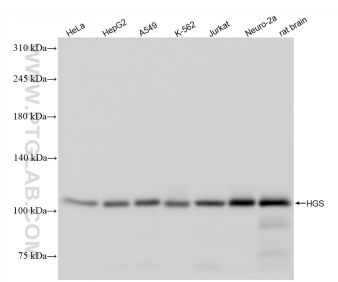
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

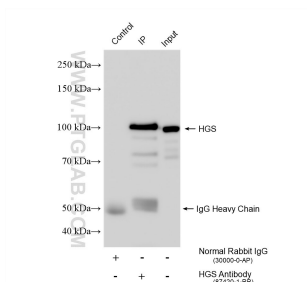
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

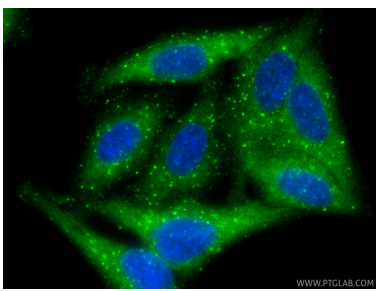
Selected Validation Data



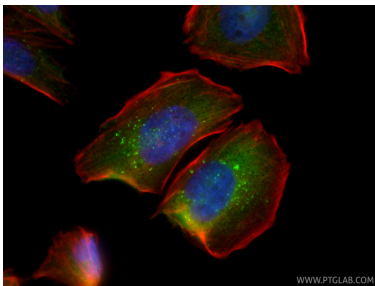
Various lysates were subjected to SDS PAGE followed by western blot with 87420-1-RR (HGS antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87420-1-PBS in a different storage buffer formulation.



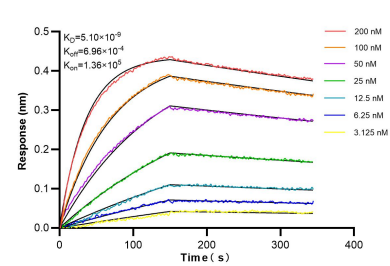
IP result of anti-HGS (IP:87420-1-RR, 4ug; Detection:87420-1-RR 1:3000) with mouse brain tissue lysate 1960 ug. This data was developed using the same antibody clone with 87420-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 87420-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 87420-1-PBS in a different storage buffer formulation.



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