

For Research Use Only

HGS Monoclonal antibody

Catalog Number: 67818-1-Ig



Basic Information

Catalog Number:

67818-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG28610

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.:

3B10D6

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:500-1:2000

IF 1:200-1:800

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Species Specificity:

Human, Mouse, Rat

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: LNCaP cells, PC-12 cells, Neuro-2a cells, Jurkat cells, A549 cells, HeLa cells, HEK-293 cells, K-562 cells, rat brain tissue, mouse brain tissue, HepG2 cells

IHC: mouse brain tissue,

IF: 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 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.

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

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

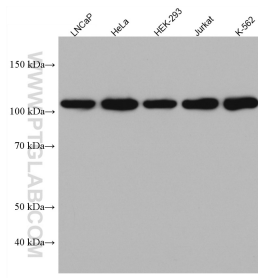
T: 4006900926

E: Proteintech-CN@ptglab.com

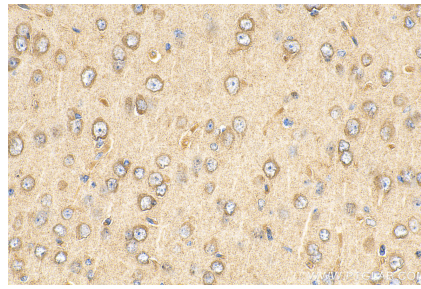
W: ptgcn.com

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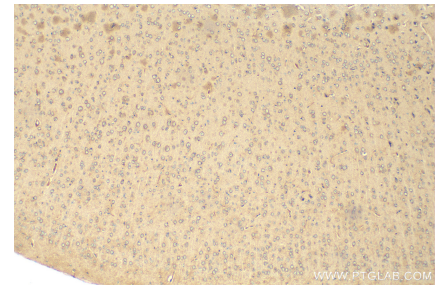
Selected Validation Data



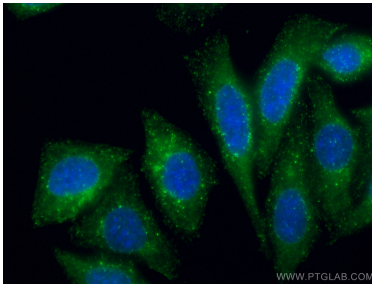
Various lysates were subjected to SDS PAGE followed by western blot with 67818-1-Ig (HGS antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67818-1-Ig (HGS antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 67818-1-Ig (HGS antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using HGS antibody (67818-1-Ig, Clone: 3B10D6) at dilution of 1:0 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).