

For Research Use Only

HPSE Monoclonal antibody

Catalog Number: 66226-1-Ig

Featured Product

3 Publications



Basic Information

Catalog Number:

66226-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG10067

GenBank Accession Number:

BC051321

GeneID (NCBI):

10855

UNIPROT ID:

Q9Y251

Full Name:

heparanase

Calculated MW:

543 aa, 61 kDa

Observed MW:

50 kDa

Purification Method:

Protein G purification

CloneNo.:

1D8B8

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:200-1:1000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human

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 : HepG2 cells,

IHC : human liver cancer tissue,

IF/ICC : HepG2 cells,

Background Information

HPSE(Heparanase) is also named as HEP, HPA, HPA1, HPR1, HPSE1, HSE1 and belongs to the glycosyl hydrolase 79 family. It is a endoglycosidase that cleaves heparan sulfate proteoglycans (HSPGs) into heparan sulfate side chains and core proteoglycans. HPSE is essential in the disassembly of the extracellular matrix (ECM) by invading cells. It has 3 isoforms produced by alternative splicing with the molecular weight of 61 kDa, 55 kDa and 53 kDa. The full length protein has six glycosylation sites. The cleavage of the 65 kDa form leads to the generation of a linker peptide, and 8 kDa and 50 kDa products. The active form, the 8/50 kDa heterodimer, is resistant to degradation and glycosylation of the 50 kDa subunit appears to be essential for its solubility.

Notable Publications

Author	Pubmed ID	Journal	Application
Rémi Cousin	34677445	Mar Drugs	WB
Xue Liu	31001480	Front Oncol	WB,IHC,IF
Li Li	38334603	Cells	WB

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

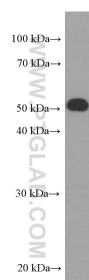
For technical support and original validation data for this product please contact:

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

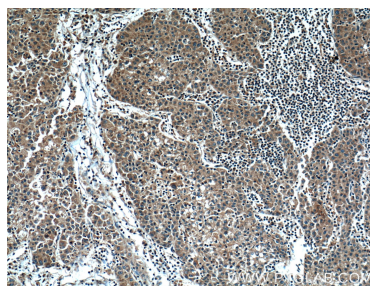
E: proteintech@ptglab.com
W: ptglab.com

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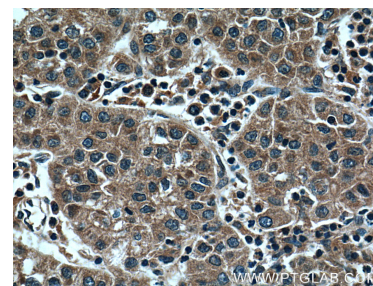
Selected Validation Data



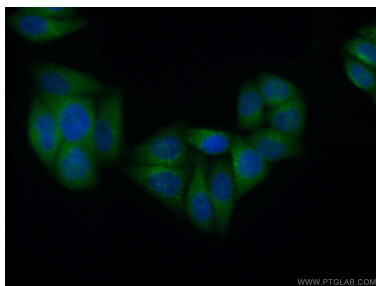
HepG2 cells were subjected to SDS PAGE followed by western blot with 66226-1-Ig (HPSE Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66226-1-Ig (HPSE Antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 66226-1-Ig (HPSE Antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 66226-1-Ig(HPSE antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).