For Research Use Only

HPSE Polyclonal antibody

Catalog Number:16673-1-AP 2 Publications

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
16673-1-AP

Size:
150ul , Concentration: 300 ug/ml by Nanodrop and 207 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG10167

GenBank Accession Number:
BC051321

GeneID (NCBI):
10855

UNIPROT ID:
Q9Y251

Full Name:
heparanase

Calculated MW:
543 aa, 61 kDa

Observed MW:
65 kDa, 50 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:200-1:1000
IHC 1:20-1:200

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF

Species Specificity:
human, mouse, rat

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 : DU 145 cells,

IHC : human liver cancer tissue, human placenta tissue, mouse kidney tissue

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
Guang Xu	28081450	Diabetes Res Clin Pract	WB
Alex M Agelidis	28700944	Cell Rep	WB,IF

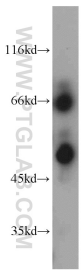
Storage

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

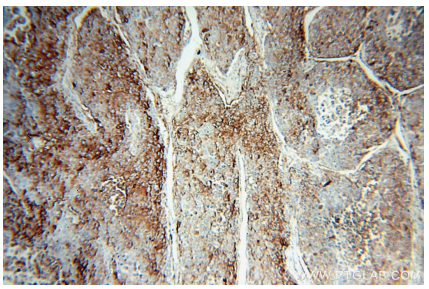
*** 20ul sizes contain 0.1% BSA

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

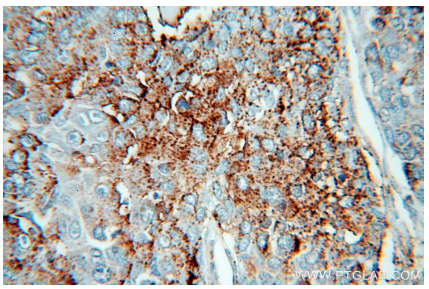
Selected Validation Data



DU 145 cells were subjected to SDS PAGE followed by western blot with 16673-1-AP (HPSE antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer using 16673-1-AP (HPSE antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 16673-1-AP (HPSE antibody) at dilution of 1:50 (under 40x lens).