For Research Use Only

HPSE Polyclonal antibody

Catalog Number:24529-1-AP 9 Publications

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Basic Information

Catalog Number:
24529-1-AP

Size:
150ul , Concentration: 750 µg/ml by Nanodrop and 360 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG21479

GenBank Accession Number:
BC051321

GeneID (NCBI):
10855

UNIPROT ID:
Q9Y251

Full Name:
heparanase

Calculated MW:
543 aa, 61 kDa

Observed MW:
60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:1000-1:8000
IHC 1:20-1:200
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse

Cited Species:
human, rat, 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 : HeLa cells, HepG2 cells, Jurkat cells, mouse liver tissue

IHC : human liver cancer tissue, human placenta tissue

IF/ICC : HeLa cells, 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
X Wang	25321193	Br J Cancer	
Guang Xu	28081450	Diabetes Res Clin Pract	WB
Yawei Li	28794202	EMBO Rep	WB,IHC

Storage

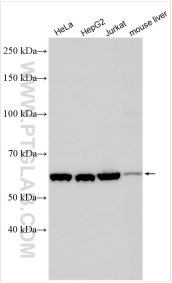
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

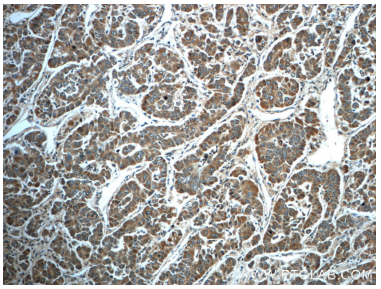
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

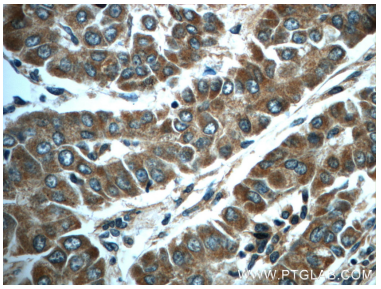
Selected Validation Data



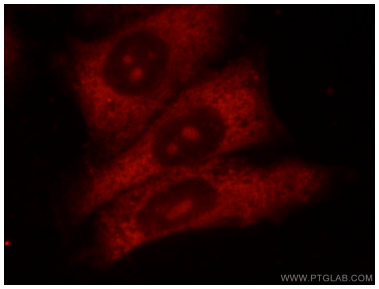
Various lysates were subjected to SDS PAGE followed by western blot with 24529-1-AP (HPSE antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 24529-1-AP (HPSE Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 24529-1-AP (HPSE Antibody) at dilution of 1:50.



Immunofluorescent analysis of HeLa cells using 24529-1-AP (HPSE antibody) at dilution of 1:25 and Rhodamine-Goat anti-Rabbit IgG.