

For Research Use Only

CPN1 Polyclonal antibody

Catalog Number: 13385-1-AP

2 Publications



Basic Information

Catalog Number: 13385-1-AP	GenBank Accession Number: BC027897	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1369	Recommended Dilutions: WB 1:1000-1:6000
Source: Rabbit	UNIPROT ID: P15169	IHC 1:20-1:200
Isotype: IgG	Full Name: carboxypeptidase N, polypeptide 1	IF/ICC 1:200-1:800
Immunogen Catalog Number: AG4035	Calculated MW: 458 aa, 52 kDa	
	Observed MW: 40-50 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: IHC	WB : HepG2 cells, Raji cells, human plasma
Species Specificity: human	IHC : human liver cancer tissue,
Cited Species: human	IF/ICC : COLO 320 cells, HepG2 cells

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Human carboxypeptidase N (CPN), a member of the CPN/E subfamily of "regulatory" metallo-carboxypeptidases, is an extracellular glycoprotein synthesized in the liver and secreted into the blood, where it controls the activity of vasoactive peptide hormones, growth factors and cytokines by specifically removing C-terminal basic residues. Normally, CPN circulates in blood plasma as a hetero-tetramer consisting of two 83 kDa (CPN2) domains each flanked by a 48 to 55 kDa catalytic (CPN1) domain. The C terminal region of the CPN1 subunit differs from all other family members in that it contains numerous basic residues. Proteolysis at these sites apparently happens either constitutively in the blood or during processing and secretion from the liver.

Notable Publications

Author	Pubmed ID	Journal	Application
Ranliang Cui	34711246	Cancer Cell Int	IHC
Ranliang Cui	35431930	Front Pharmacol	IHC

Storage

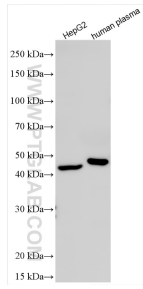
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

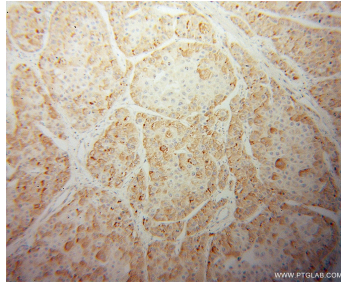
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

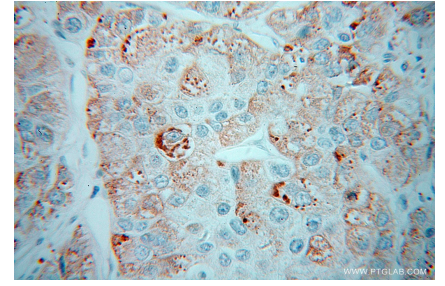
Selected Validation Data



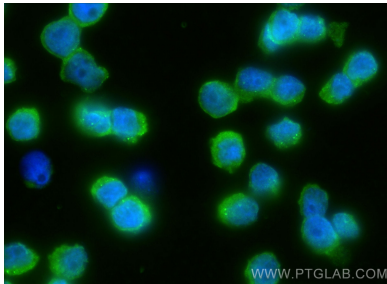
Various lysates were subjected to SDS PAGE followed by western blot with 13385-1-AP (CPN1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



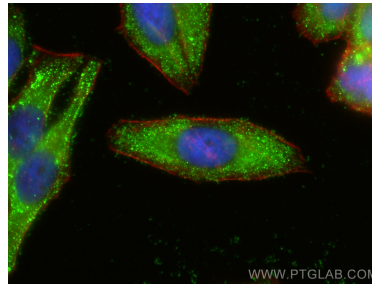
Immunohistochemical analysis of paraffin-embedded human liver cancer using 13385-1-AP (CPN1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 13385-1-AP (CPN1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed COLO 320 cells using CPN1 antibody (13385-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CPN1 antibody (13385-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).