

For Research Use Only

CPN2 Polyclonal antibody

Catalog Number: 27160-1-AP



Basic Information

Catalog Number: 27160-1-AP	GenBank Accession Number: BC031569	Purification Method: Antigen affinity purification
Size: 750 µg/ml	GeneID (NCBI): 1370	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P22792	
Isotype: IgG	Full Name: carboxypeptidase N, polypeptide 2	
Immunogen Catalog Number: AG25801	Calculated MW: 545 aa, 61 kDa	
	Observed MW: 83-90 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human

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 : human plasma,

IHC : human liver tissue,

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 (PMID:17157876). CPN2 also performs a crucial biological function in the invasion and migration of breast cancer and can be used as a biomarker for effective diagnosis and treatment of breast cancer.

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:

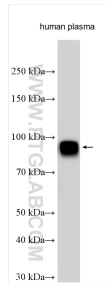
T: 4006900926

E: Proteintech-CN@ptglab.com

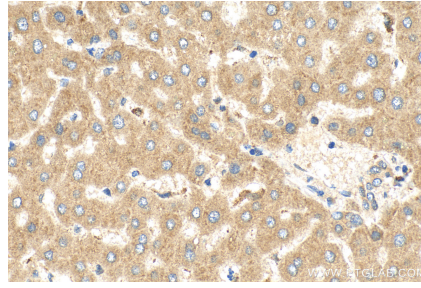
W: ptgcn.com

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

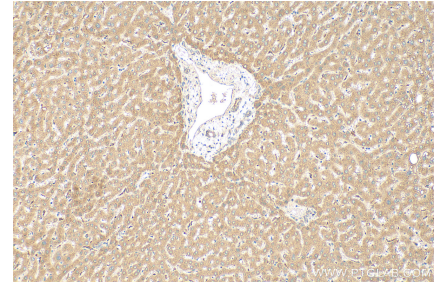
Selected Validation Data



human plasma tissue were subjected to SDS PAGE followed by western blot with 27160-1-AP (CPN2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 27160-1-AP (CPN2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 27160-1-AP (CPN2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).