

For Research Use Only

Carboxypeptidase A1 Polyclonal antibody

Catalog Number: 15836-1-AP

6 Publications



Basic Information

Catalog Number:

15836-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8586

GenBank Accession Number:

BC005279

GeneID (NCBI):

1357

UNIPROT ID:

P15085

Full Name:

carboxypeptidase A1 (pancreatic)

Calculated MW:

419 aa, 47 kDa

Observed MW:

47 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2400

IHC 1:20-1:200

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

mouse, rat

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 : mouse pancreas tissue,

IHC : human placenta tissue, human kidney tissue, human liver tissue, human lung tissue, human spleen tissue

IF/ICC : U2OS cells,

Background Information

CPA1(Carboxypeptidase A1) is also named as CPA and belongs to the the peptidase M14 family. CPA1 is one of the genes whose expression in the pancreas and the protein which it encodes is synthesized as an inactive precursor, proCPA1, which is processed to the active enzyme by the proteolytic removal of the 95-amino acid N-terminal prodomain. The mature CPA1 is not secreted and is trapped and degraded intracellularly(PMID:8639628). This antibody is specific to CPA1.

Notable Publications

Author	Pubmed ID	Journal	Application
Uylissa A Rodriguez	36017799	Development	IF
Qiu Tu	30910991	Dis Model Mech	IF
Xintong Jia	33483239	Pancreatology	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

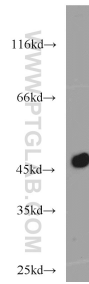
For technical support and original validation data for this product please contact:

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

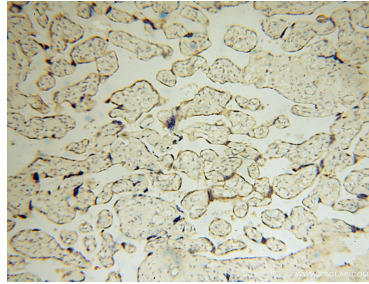
E: proteintech@ptglab.com
W: ptglab.com

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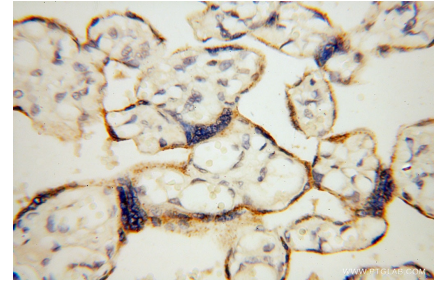
Selected Validation Data



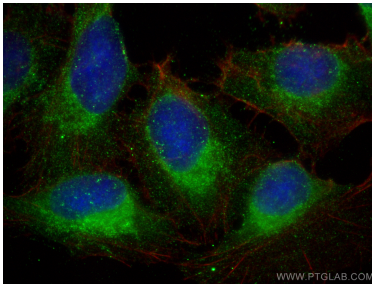
mouse pancreas tissue were subjected to SDS PAGE followed by western blot with 15836-1-AP (Carboxypeptidase A1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta using 15836-1-AP (Carboxypeptidase A1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human placenta using 15836-1-AP (Carboxypeptidase A1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using Carboxypeptidase A1 antibody (15836-1-AP) at dilution of 1:400 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-Phalloidin (red).