

For Research Use Only

CPA4 Polyclonal antibody

Catalog Number: 26824-1-AP

5 Publications



Basic Information

Catalog Number:

26824-1-AP

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop and 533 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25327

GenBank Accession Number:

BC052289

GeneID (NCBI):

51200

UNIPROT ID:

Q9UI42

Full Name:

carboxypeptidase A4

Calculated MW:

421 aa, 47 kDa

Observed MW:

44 kDa, 150 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:1000

IHC: 1:100-1:400

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

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 : mouse heart tissue, SMMC-7721 cells, mouse kidney tissue, A549 cells, HepG2 cells

IHC : human lung cancer tissue,

Background Information

Carboxypeptidase A4 (CPA4), a member of the metallo-carboxypeptidase family, is a zinc-containing exopeptidase that catalyzes the release of carboxy-terminal amino acids. CPA4 was previously shown to play a crucial role in cell growth and differentiation by modulating or inactivating peptide hormone activity (PMID: 27904708). CPA4 expression is increased in multiple cancer tissues, including tissues from patients with pancreatic cancer, gastric cancer, esophageal squamous cell carcinoma, and lung cancer, and may serve as a potential diagnostic and prognostic marker (PMID: 31397502, 32922037).

Notable Publications

Author	Pubmed ID	Journal	Application
Fernanda G Kugeratski	30723174	Sci Signal	WB
Kang He	40089797	Eur J Med Res	IHC
Kongjia Wang	38494845	J Cell Mol Med	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

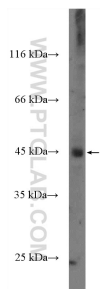
For technical support and original validation data for this product please contact:

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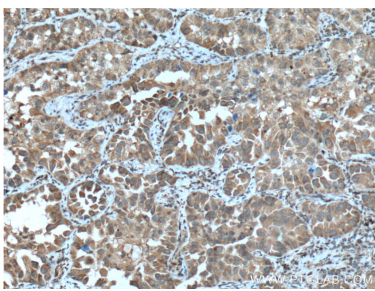
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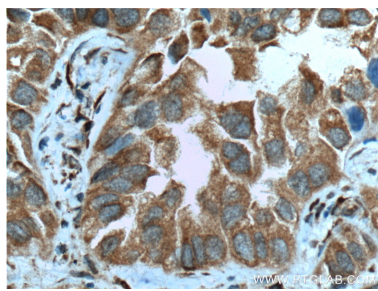
Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 26824-1-AP (CPA4 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 26824-1-AP (CPA4 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 26824-1-AP (CPA4 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).