

For Research Use Only

CAAP1 Polyclonal antibody

Catalog Number: 26213-1-AP



Basic Information

Catalog Number:

26213-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG23850

GenBank Accession Number:

BC014658

GeneID (NCBI):

79886

UNIPROT ID:

Q9H8G2

Full Name:

chromosome 9 open reading frame 82

Observed MW:

47-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:2000-1:10000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:250-1:1000

Applications

Tested Applications:

WB, IHC, IP, 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: A431 cells, A549 cells, MDA-MB-231 cells

IP: A431 cells,

IHC: human liver tissue,

Background Information

CAAP1 (Caspase Activity and Apoptosis Inhibitor 1), also known as C9orf82, is an evolutionarily conserved anti-apoptotic protein. It inhibits apoptosis by interfering with the activation of caspase-10, thereby blocking the feedback amplification loop of caspase-3/9 in the mitochondrial apoptotic pathway. Recent studies have revealed that CAAP1 plays a dual role in the regulation of autophagy, balancing the processes of autophagy and apoptosis. In tumor biology, the expression level of CAAP1 is associated with chemotherapy resistance in various cancers, making it a potential prognostic biomarker. In addition, CAAP1 is involved in neuroprotective mechanisms and plays an important role in hypoxic-ischemic brain injury by regulating neuronal apoptosis. Its expression is finely regulated by non-coding RNA networks, including MKL1/miR-5100 and miR-184-5p. (PMID: 30629682)

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

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

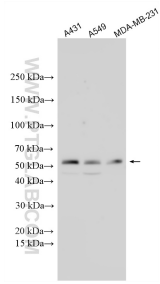
T: 4006900926

E: Proteintech-CN@ptglab.com

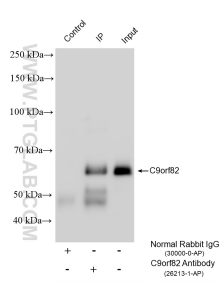
W: ptgcn.com

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

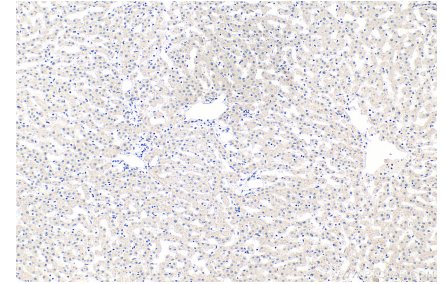
Selected Validation Data



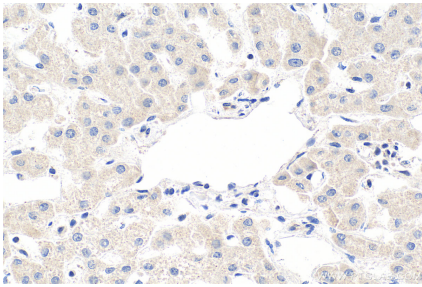
Various lysates were subjected to SDS PAGE followed by western blot with 26213-1-AP (C9orf82 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



IP result of anti-C9orf82 (IP:26213-1-AP, 4ug; Detection:26213-1-AP 1:3000) with A431 cells lysate 800 ug.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26213-1-AP (CAAP1 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 26213-1-AP (CAAP1 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).