

For Research Use Only

# CAAP1 Polyclonal antibody, PBS Only

Catalog Number: 26213-1-PBS



## Basic Information

<b>Catalog Number:</b> 26213-1-PBS	<b>GenBank Accession Number:</b> BC014658	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 79886	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9H8G2	
<b>Isotype:</b> IgG	<b>Full Name:</b> chromosome 9 open reading frame 82	
<b>Immunogen Catalog Number:</b> AG23850	<b>Observed MW:</b> 47-55 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IP, Indirect ELISA

**Species Specificity:**  
human

## 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 -80°C.

**Storage Buffer:**  
PBS only, pH7.3

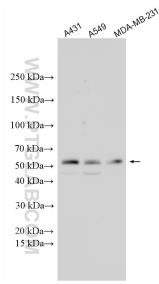
For technical support and original validation data for this product please contact:

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

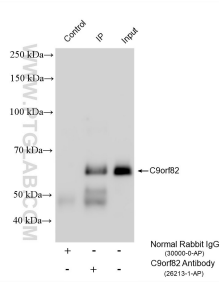
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

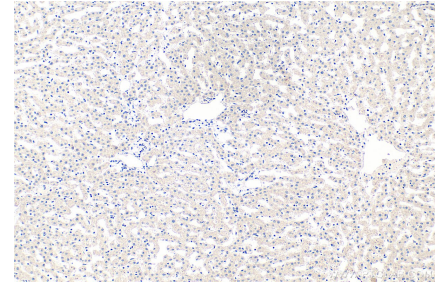
## Selected Validation Data



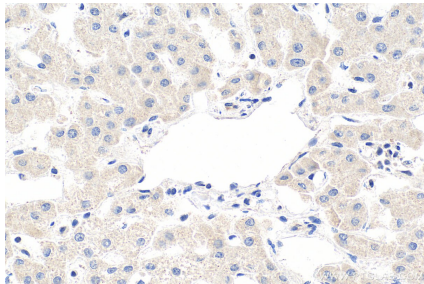
Various lysates were subjected to SDS PAGE followed by western blot with 26213-1-AP (C9orf82 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 26213-1-PBS in a different storage buffer formulation.



IP result of anti-C9orf82 (IP:26213-1-AP, 4ug; Detection:26213-1-AP 1:3000) with A431 cells lysate 800 ug. This data was developed using the same antibody clone with 26213-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 26213-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 26213-1-PBS in a different storage buffer formulation.