

For Research Use Only

# CNDP1 Polyclonal antibody

Catalog Number: 17759-1-AP **1 Publications**



## Basic Information

<b>Catalog Number:</b> 17759-1-AP	<b>GenBank Accession Number:</b> BC110295	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 400 µg/ml by Nanodrop and 300 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 84735	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:50-1:500 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> carnosine dipeptidase 1 (metallopeptidase M20 family)	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 508 aa, 57 kDa	
<b>Immunogen Catalog Number:</b> AG12127	<b>Observed MW:</b> 57 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : HEK-293 cells, A431 cells
<b>Cited Applications:</b> IHC	<b>IHC :</b> human prostate cancer tissue, mouse brain tissue
<b>Species Specificity:</b> human, mouse, rat	<b>IF :</b> A431 cells,
<b>Cited Species:</b> human	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

Beta-Ala-His dipeptidase (CNDP1) encodes the secreted serum carnosinase, which is synthesized in the brain and secreted into the systematic circulation, CNDP1 hydrolyzes L-carnosine and is essential for glucose metabolism and the transportation of activated fatty acids across the mitochondrial membrane (PMID: 32111749, 16046297).

## Notable Publications

Author	Pubmed ID	Journal	Application
Shiqi Zhang	36319874	Amino Acids	IHC

## Storage

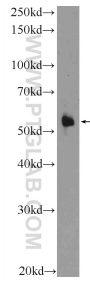
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

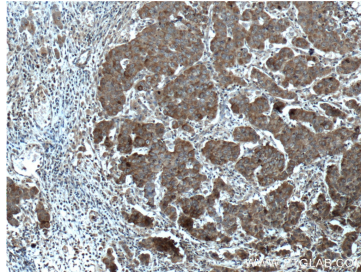
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

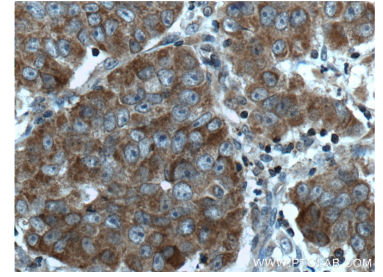
## Selected Validation Data



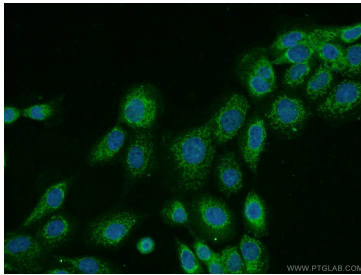
HEK-293 cells were subjected to SDS PAGE followed by western blot with 17759-1-AP (CNDP1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 17759-1-AP (CNDP1 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 prostate cancer tissue slide using 17759-1-AP (CNDP1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of A431 cells using 17759-1-AP (CNDP1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).