

For Research Use Only

CNDP2 Polyclonal antibody

Catalog Number: 30025-1-AP



Basic Information

Catalog Number: 30025-1-AP	GenBank Accession Number: BC001375	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 µg/ml by Nanodrop;	GeneID (NCBI): 55748	Recommended Dilutions: WB 1:2000-1:10000
Source: Rabbit	Full Name: CNDP dipeptidase 2 (metallopeptidase M20 family)	
Isotype: IgG	Calculated MW: 53 kDa	
Immunogen Catalog Number: AG32312	Observed MW: 44-53 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293T cells, HL-60 cells, Jurkat cells, PC-3 cells, U-251 cells, U-937 cells
Species Specificity: Human	

Background Information

Carnosine dipeptidase II (CNDP2) catalyzes the peptide bond hydrolysis in dipeptides, displaying a non-redundant activity toward threonyl dipeptides. It has high dipeptidase activity toward cysteinyl glycine, an intermediate metabolite in glutathione metabolism (PubMed:19346245, PubMed:12473676). Metabolizes N-lactoyl-amino acids, both through hydrolysis to form lactic acid and amino acids, as well as through their formation by reverse proteolysis (PubMed:25964343). CNDP2 has 2 isoforms with a molecular weight of 53 and 44 kDa. The isoform 1 is ubiquitously expressed with higher levels in the kidney and liver (at protein level) and expressed in peripheral blood leukocytes (PubMed:12473676). It is also expressed in gastric mucosa and down-regulated in gastric cancer mucosal tissues (at the protein level) (PubMed:24395568). Isoform 2 is broadly expressed in fetal tissues and expressed in the adult liver and placenta. (PMID: 17121880).

Storage

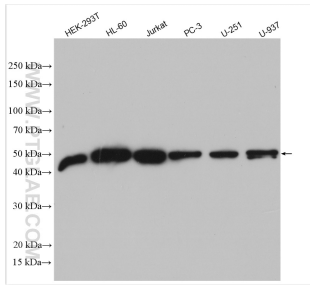
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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



Various lysates were subjected to SDS PAGE followed by western blot with 30025-1-AP (CNDP2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.