

For Research Use Only

CNDP2 Recombinant antibody

Catalog Number: 84924-7-RR



Basic Information

Catalog Number: 84924-7-RR	GenBank Accession Number: BC001375	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 55748	CloneNo.: 242373E4
Source: Rabbit	UNIPROT ID: Q96KP4	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:1000-1:4000
Isotype: IgG	Full Name: CNDP dipeptidase 2 (metallopeptidase M20 family)	
Immunogen Catalog Number: AG6684	Calculated MW: 53 kDa	
	Observed MW: 44-53 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human, mouse, rat	WB : LNCaP cells, U2OS cells, mouse kidney tissue, rat kidney tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : rat stomach tissue,

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).

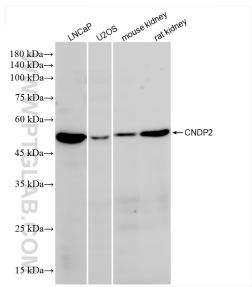
Storage

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

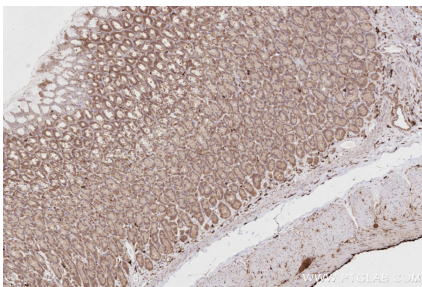
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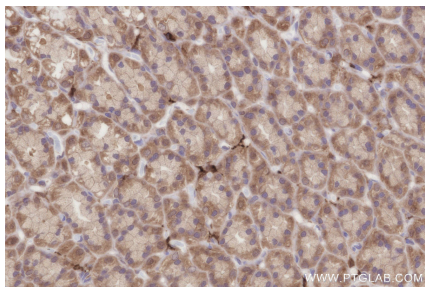
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84924-7-RR (CNDP2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 84924-7-RR (CNDP2 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat stomach tissue slide using 84924-7-RR (CNDP2 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).