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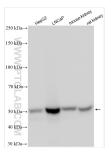
CNDP2 Polyclonal antibody Catalog Number: 14925-1-AP Featured Product 1

Featured Product 14 Publications

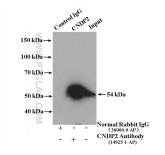


Basic Information	Catalog Number: 14925-1-AP	AP BC001375 GeneID (NCBI): concentration: 1000 ug/ml by 55748 up; UNIPROT ID: Q96KP4 Full Name: CNDP dipeptidase 2 (metallopeptidase M20 family) gen Catalog Number: Calculated MW:		Purification Method: Antigen affinity purification
	Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;			Recommended Dilutions: WB 1:2000-1:12000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:400 IF/ICC 1:50-1:500
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG6684			
Applications	Tested Applications: WB, IHC, IF/ICC, IP, ELISA		Positive Controls:	
	Cited Applications:	WB:HepG2 kidney rat k		ells, LNCaP cells, mouse kidney tissue, ra dney
	WB, IHC, IF Species Specificity:	IP : mouse		stis tissue, testis tissue,
	human, mouse, rat Cited Species: human, mouse, zebrafish	IF/ICC : He		
	Note-IHC: suggested antigen r TE buffer pH 9.0; (*) Alternativ retrieval may be performed w buffer pH 6.0	vely, antigen		
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 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).			
Notable Publications	Author Pub	med ID Jo	ournal	Application
	Joon T Kim 315	87987 C	ell Chem Biol	WB
	Felix Schmöhl 310	73745 C	ell Mol Life Sci	WB
	David C Hondius 334	92460 A	cta Neuropathol	IHC
Storage	Storage: Store at -20°C. Stable for one year aft Storage Buffer: PBS with 0.02% sodium azide and 50	% glycerol pH 7.3.		
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20 $^{\circ}$ C s	lorage		
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)	ta for this product please contact: E: proteintech@ptglab.com W: ptglab.com			exclusively available under Proteintech nd is not available to purchase from any turer.

Selected Validation Data



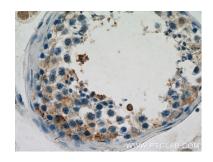
Various lysates were subjected to SDS PAGE followed by western blot with 14925-1-AP (CNDP2 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



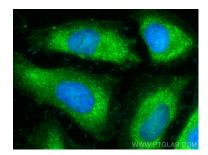
IP result of anti-CNDP2 (IP:14925-1-AP, 4ug; Detection:14925-1-AP 1:1000) with mouse testis tissue lysate 4000 ug.



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 14925-1-AP (CNDP2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 14925-1-AP (CNDP2 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CNDP2 antibody (14925-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).