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Anti-CNDP2 Antibody (aa2-475)

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18560

Product Information

Application	IHC-P, E
Primary Accession	Q96KP4
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	52878

Additional Information

Gene ID	55748
Alias Symbol	CNDP2
Other Names	CNDP2, CN2, CPGL, CNDP dipeptidase 2, HsT2298, PEPA, Peptidase A
Target/Specificity	Human CNDP2
Reconstitution & Storage	Caprylic acid and ammonium sulfate precipitation
Precautions	Anti-CNDP2 Antibody (aa2-475) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CNDP2 {ECO:0000303|PubMed:25964343, ECO:0000312|HGNC:HGNC:24437}
Function	Cytosolic metallodipeptidase with broad substrate specificity that catalyzes the hydrolysis of amide bonds in dipeptides and pseudopeptides (PubMed:12473676, PubMed:19346245, PubMed:25964343). Substrates include L-cysteinylglycine, an intermediate metabolite of the gamma-glutamyl cycle of glutathione metabolism (PubMed:19346245, PubMed:25964343). Can also hydrolyze threonyl-containing dipeptides (By similarity). Upon physiological conditions of amino acids and lactate excess can also catalyze a reverse proteolysis reaction, generating N- [(S)-lactoyl]-L-phenylalanine and possibly other N-lactoyl-amino acids which it can also hydrolyze in vitro. N-[(S)-lactoyl]-L-phenylalanine is an exercise-induced metabolite that influences food intake and systemic energy balance (PubMed:25964343). Carnosine is probably not a physiological substrate and L-homocarnosine is not a substrate for this enzyme (PubMed:12473676). Plays a role in the regulation of cell cycle arrest and apoptosis (PubMed:17121880,

PubMed:24395568).

Cellular Location	Cytoplasm, cytosol
Tissue Location	[Isoform 1]: Ubiquitously expressed with higher levels in kidney and liver (at protein level). Expressed in peripheral blood leukocytes (PubMed:12473676). Expressed in gastric mucosa and down-regulated in gastric cancer mucosal tissues (at protein level) (PubMed:24395568).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.