

CNDP2 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17117b**Specification**

CNDP2 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O96KP4
Other Accession	NP_060705.2 , NP_001161971.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	52878
Antigen Region	348-375

CNDP2 Antibody (C-term) - Additional Information**Gene ID** 55748**Other Names**

Cytosolic non-specific dipeptidase, CNDP dipeptidase 2, Glutamate carboxypeptidase-like protein 1, Peptidase A, CNDP2, CN2, CPGL, PEPA

Target/Specificity

This CNDP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 348-375 amino acids from the C-terminal region of human CNDP2.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CNDP2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CNDP2 Antibody (C-term) - Protein Information**Name** CNDP2 {ECO:0000303|PubMed:25964343, ECO:0000312|HGNC:HGNC:24437}

Function Catalyzes the peptide bond hydrolysis in dipeptides, displaying a non-redundant activity toward threonyl dipeptides (By similarity). Mediates threonyl dipeptide catabolism in a tissue-specific way (By similarity). Has high dipeptidase activity toward cysteinylglycine, an intermediate metabolite in glutathione metabolism (PubMed:[12473676](#), PubMed:[19346245](#)). 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](#)). Plays a role in the regulation of cell cycle arrest and apoptosis (PubMed:[17121880](#), PubMed:[24395568](#)).

Cellular Location

Cytoplasm

Tissue Location

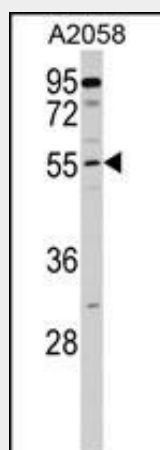
[Isoform 1]: Ubiquitously expressed with higher levels in kidney and liver (at protein level). Expressed in peripheral blood leukocytes (PubMed:[12473676](#)). Expressed in gastric mucosa and down-regulated in gastric cancer mucosal tissues (at protein level) (PubMed:[24395568](#)).

CNDP2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CNDP2 Antibody (C-term) - Images



CNDP2 Antibody (C-term) (Cat. #AP17117b) western blot analysis in A2058 cell line lysates (35ug/lane). This demonstrates the CNDP2 antibody detected the CNDP2 protein (arrow).

CNDP2 Antibody (C-term) - Background

CNDP2, also known as tissue carnosinase and peptidase A (EC 3.4.13.18), is a nonspecific dipeptidase rather than a selective carnosinase (Teufel et al., 2003 [PubMed [12473676](#)]).

CNDP2 Antibody (C-term) - References

Ahmed, A.H., et al. Biochemistry 49(13):2843-2850(2010)
McDonough, C.W., et al. Hum. Genet. 126(2):265-275(2009)
Wanic, K., et al. Diabetes 57(9):2547-2551(2008)
Wanic, K., et al. Diabetes (2008) In press :
Tu, L.C., et al. Mol. Cell Proteomics 6(4):575-588(2007)