

# CNDP2 Antibody (C-term) Blocking Peptide

Synthetic peptide Catalog # BP17117b

## Specification

# **CNDP2 Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession

<u>Q96KP4</u>

## CNDP2 Antibody (C-term) Blocking Peptide - 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

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

# CNDP2 Antibody (C-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/19346245" target="\_blank">19346245</a>, PubMed:<a href="http://www.uniprot.org/citations/12473676" target="\_blank">19346245</a>). 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:<a href="http://www.uniprot.org/citations/25964343" target="\_blank">25964343</a>). Plays a role in the regulation of cell cycle arrest and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/17121880" target="\_blank">17121880</a>, PubMed:<a href="http://www.uniprot.org/citations/25964343" target="\_blank">25964343</a>). Plays a role in the regulation of cell cycle arrest and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/17121880" target="\_blank">217121880</a>, PubMed:<a href="http://www.uniprot.org/citations/25966343" target="\_blank">25964343</a>, PubMed:<a href="http://www.uniprot.org/citations/25964343" target="\_blank">25964343</a>). Plays a role in the regulation of cell cycle arrest and apoptosis (PubMed:<a href="http://www.uniprot.org/citations/17121880" target="\_blank">217121880</a>, PubMed:<a href="http://www.uniprot.org/citations/24395568" target="\_blank">24395568</a>).

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) Blocking Peptide - Protocols**

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

Blocking Peptides

#### CNDP2 Antibody (C-term) Blocking Peptide - Images

### CNDP2 Antibody (C-term) Blocking Peptide - Background

CNDP2, also known as tissue carnosinase and peptidase A(EC 3.4.13.18), is a nonspecific dipeptidase rather than aselective carnosinase (Teufel et al., 2003 [PubMed12473676]).

#### **CNDP2 Antibody (C-term) Blocking Peptide - 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)