

**KD-Validated Anti-CNDP2 Mouse Monoclonal Antibody**  
**Mouse monoclonal antibody**  
**Catalog # AGI2009****Specification****KD-Validated Anti-CNDP2 Mouse Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q96KP4</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 53 kDa, observed, 53 kDa kDa
Gene Name	CNDP2
Aliases	CNDP2; Carnosine Dipeptidase 2; CPGL; CN2; Peptidase A; HsT2298; PEPA; CNDP Dipeptidase 2 (Metallopeptidase M20 Family); Glutamate Carboxypeptidase-Like Protein 1; Cytosolic Non-Specific Dipeptidase; Cytosolic Nonspecific Dipeptidase; Carnosine Dipeptidase II; Threonyl Dipeptidase; Carnosinase-2; FLJ10830; HEL-S-13; Epididymis Secretory Protein Li 13; CNDP Dipeptidase; EC 3.4.13.18
Immunogen	Recombinant protein of human CNDP2

**KD-Validated Anti-CNDP2 Mouse Monoclonal Antibody - Additional Information**

Gene ID	55748
<b>Other Names</b>	
Cytosolic non-specific dipeptidase, 3.4.13.18, CNDP dipeptidase 2, Glutamate carboxypeptidase-like protein 1, Peptidase A, Threonyl dipeptidase, CNDP2 {ECO:0000303 PubMed:25964343, ECO:0000312 HGNC:HGNC:24437}	

**KD-Validated Anti-CNDP2 Mouse Monoclonal Antibody - 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/12473676" target="\_blank">12473676</a>, PubMed:<a href="http://www.uniprot.org/citations/19346245" 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/12473676" target="\_blank">12473676</a>).

href="http://www.uniprot.org/citations/17121880" target="\_blank">17121880</a>, PubMed:<a href="http://www.uniprot.org/citations/24395568" target="\_blank">24395568</a>).

### Cellular Location

Cytoplasm

### Tissue Location

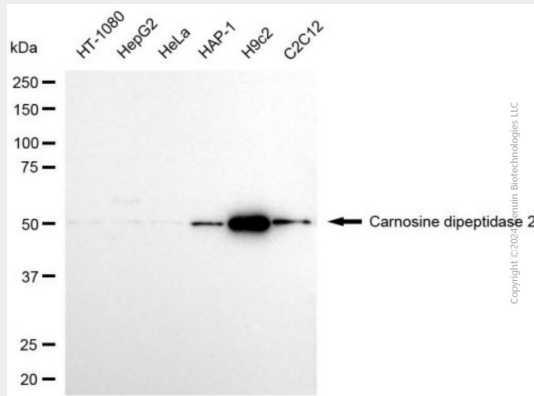
[Isoform 1]: Ubiquitously expressed with higher levels in kidney and liver (at protein level). Expressed in peripheral blood leukocytes (PubMed:12473676). Expressed in gastric mucosa and down-regulated in gastric cancer mucosal tissues (at protein level) (PubMed:24395568).

## KD-Validated Anti-CNDP2 Mouse Monoclonal Antibody - Protocols

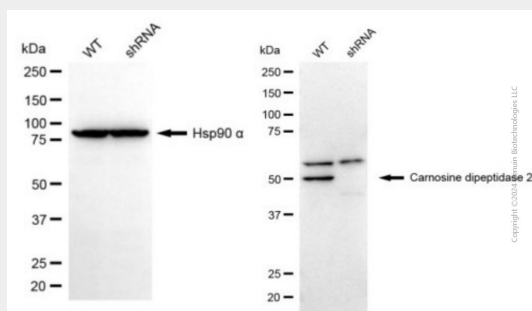
Provided below are standard protocols that you may find useful for product applications.

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

## KD-Validated Anti-CNDP2 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-carnosine dipeptidase 2 antibody (Cat#AGI2009). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-carnosine dipeptidase 2 antibody (Cat#AGI2009, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-carnosine dipeptidase 2 antibody (Cat#AGI2009). Carnosine dipeptidase 2 expression in wild-type (WT) and carnosine dipeptidase 2 (CNDP2) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-carnosine dipeptidase 2 antibody (Cat#AGI2009, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.