

Datasheet for ABIN7320351
CNDP2 Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	CNDP2
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CNDP2 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse CNDP2/CPGL/PEPA Protein (His Tag)(Active)
Sequence:	Met 1-Asn 475
Characteristics:	A DNA sequence encoding the mouse CNDP2 (NP_075638.2) (Met 1-Asn 475) was expressed, with a C-terminal polyhistidine tag.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to cleave carnosine (β-Ala-His) in a two step assay (mouse CNDP2 concentration 10 µg/ml). The specific activity is >40 pmoles/min/µg.

Target Details

Target:	CNDP2
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Target Details

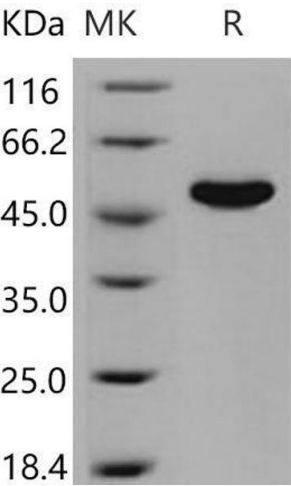
Alternative Name:	CNDP2/CPGL/PEPA (CNDP2 Products)
Background:	<p>Background: Cytosolic non-specific dipeptidase, also known as CNDP dipeptidase 2, Glutamate carboxypeptidase-like protein 1, Peptidase A, CNDP2 and CN2, is a cytoplasm protein which belongs to the peptidase M20A family. CNDP2 / CPGL is a cytosolic enzyme that can hydrolyze carnosine to yield L-histidine and beta-alanine. CNDP2 / CPGL hydrolyzes a variety of dipeptides including L-carnosine but has a strong preference for Cys-Gly. It may be play a role as tumor suppressor in hepatocellular carcinoma (HCC) cells. Isoform 1 of CNDP2 / CPGL is ubiquitously expressed with higher levels in kidney and liver (at protein level). Isoform 2 of CNDP2 / CPGL is expressed in fetal tissues, it is only expressed in adult liver and placental tissues. CNDP2 / CPGL is highly expressed in the histaminergic neurons in the tuberomammillary nucleus, implying that it may supply histidine to histaminergic neurons for histamine synthesis.</p> <p>Synonym: CNDP2;CNDP dipeptidase 2;Cytosolic non-specific dipeptidase;Glutamate carboxypeptidase-like protein 1;Dip-2;Pep-1;Pep1</p>
Molecular Weight:	54 kDa
NCBI Accession:	NP_075638

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, 10 % glycerol, pH 8.5
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.