



# CNDP1 Polyclonal Antibody

<b>Catalog No</b>	BYab-07223
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	CNDP1 CN1 CPGL2 UNQ1915/PRO4380
<b>Protein Name</b>	Beta-Ala-His dipeptidase (EC 3.4.13.20) (CNDP dipeptidase 1) (Carnosine dipeptidase 1) (Glutamate carboxypeptidase-like protein 2) (Serum carnosinase)
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 330-410
<b>Specificity</b>	CNDP1 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	55kD
<b>Cell Pathway</b>	Secreted .
<b>Tissue Specificity</b>	Found in serum and adult nervous central system. Absent in serum from patients with homocarnosinosis.
<b>Function</b>	catalytic activity:Preferential hydrolysis of the beta-Ala-l-His dipeptide (carnosine), and also anserine, Xaa-l-His dipeptides and other dipeptides including homocarnosine.,cofactor:Binds 2 zinc ions per subunit.,disease:Deficiency of CNDP1 may be the cause of homocarnosinosis.,disease:Diabetic patients with the CNDP1 Mannheim allele are less susceptible for nephropathy.,enzyme regulation:Inhibited by the metal chelator 1,10-o-phenantrolin. The inhibitory concentration 50% (IC(50)) is 5 uM.,polymorphism:The number of trinucleotide (CTG) repeat varies among different alleles leading to insertion of Leu residues in the signal peptide. The allele with 5 leucines (as shown in the reference entry) is known as the Mannheim allele.,similarity:Belongs to the peptidase M20A family.,subunit:Homodimer.,tissue specificity:Expressed in adult nervous central

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system.,

**Background**

This gene encodes a member of the M20 metalloprotease family. The encoded protein is specifically expressed in the brain, is a homodimeric dipeptidase which was identified as human carnosinase. This gene contains trinucleotide (CTG) repeat length polymorphism in the coding region. [provided by RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images

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