



CNDP1 Polyclonal Antibody

Catalog No	YP-Ab-07223
Isotype	IgG
Reactivity	Human;Rat;Mouse
Applications	WB;ELISA
Gene Name	CNDP1 CN1 CPGL2 UNQ1915/PRO4380
Immunogen	Synthesized peptide derived from human protein . at AA range: 330-410
Specificity	CNDP1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CPGL2;CNDP dipeptidase 1;CN1;Carnosine dipeptidase 1;Beta-Ala-His dipeptidase;CNDP1;CNDP1 CN1 CPGL2 UNQ1915/PRO4380;Beta-Ala-His dipeptidase (EC 3.4.13.20) (CNDP dipeptidase 1) (Carnosine dipeptidase 1) (Glutamate carboxypeptidase-like protein 2) (Serum carnosinase)
Observed Band	57 kDa
Calculated Molecular Weight	508 aa, 57 kDa
Cell Pathway	Secreted .
Tissue Specificity	Found in serum and adult nervous central system. Absent in serum from patients with homocarnosinosis.
Function	catalytic activity:Preferential hydrolysis of the beta-Ala- -His dipeptide (carnosine) , and also anserine, Xaa- -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-phenantroline. 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 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