

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human CNDP1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 464702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf21-derived recombinant human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL Met1-Asp475 Accession # Q96KP4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL (Catalog # 3560-ZN)
Immunoprecipitation	25 µg/mL	Cell lysates spiked with Recombinant Human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL (Catalog # 3560-ZN), see our available Western blot detection antibodies

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The human CNDP2 gene encodes cytosol non-specific dipeptidase, a member of the M20 family of metalloproteases (1, 2). Also known as glutamate carboxypeptidase-like protein 1 (CPGL), tissue carnosinase or peptidase A, CNDP2 is ubiquitously expressed throughout human tissues. Unlike CNDP1, CNDP2 has broad substrate specificity for dipeptides with free amino and carboxyl groups. The amino acid sequence of human CNDP2 is 90% and 84% identical to that of dog/mouse/rat and chicken, respectively.

References:

1. Teufel, M. *et al.* (2003) *J. Biol. Chem.* **278**:6521.
2. Woessner, J. (2004) in *Handbook of Proteolytic Enzymes* (ed. Barrett, A.J. *et al.*) pp.1020, Academic Press, San Diego.