

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human CPGL-2 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL Ala2-Asp475 Accession # Q96KP4
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

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	0.1 µg/mL	Recombinant Human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL (Catalog # 3560-ZN)
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium 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 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <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 purified recombinant human CNDP2 migrates as three bands in SDS-PAGE under reducing conditions that correspond to the full length protein (54 kDa), the N-terminal fragment (33 kDa) and the C-terminal fragment (22 kDa). The initiator Met1 may be removed and Ala2 may be acetylated based on Accession # Q96KP4.

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.