

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 464702
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL Met1-Asp475 Accession # Q96KP4
<b>Formulation</b>	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.

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

#### PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

#### 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.