

#### 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, less than 1% cross-reactivity with recombinant human CPGL-2 is observed.                                                                 |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human Cytosol Nonspecific Dipeptidase (CNDP2)/CPGL Ala2-Asp475<br>Accession # Q96KP4                                                                                                                |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### 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>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### 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.

#### PRODUCT SPECIFIC NOTICES

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