**DESCRIPTION**

**Species Reactivity** Mouse

**Specificity** Detects mouse Carboxypeptidase B1/CPB1 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human (rh) CPB1 is observed and less than 1% cross-reactivity with rhCPA1 and recombinant mouse CPA4 is observed.

**Source** Polyclonal Goat IgG

**Purification** Antigen Affinity-purified

**Immunogen** Mouse myeloma cell line NS0-derived recombinant mouse Carboxypeptidase B1/CPB1

| Accession # NP_083982 |

**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.*

<table>
<thead>
<tr>
<th>Sample</th>
<th>Recommended Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>0.1 μg/mL</td>
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<tr>
<td>Immunoprecipitation</td>
<td>25 μg/mL</td>
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</table>

**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.
- 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**

Carboxypeptidase B1, encoded by the CPB1 gene, specifically cleaves the C-terminal Arg and Lys residues with a preference for Arg (1). The deduced amino acid sequence of mouse CPB1 consists of a signal peptide (residues 1 to 15), a pro region (residue 16 to 108), and a mature chain (residues 109 to 415). The purified rmCPB1 corresponds to the pro form, which can be activated by trypsin, the only pancreatic protease capable of generating active enzyme from the zymogen in vitro (1).

**References:**