**Human Tripeptidyl-Peptidase I/TPP1 Antibody**

**Monoclonal Mouse IgG\textsubscript{2A} Clone # 254008**

**Catalog Number:** MAB2237

### DESCRIPTION

**Species Reactivity** Human

**Specificity** Detects human Tripeptidyl-Peptidase I/TPP1 in direct ELISAs and Western blots.

**Source** Monoclonal Mouse IgG\textsubscript{2A} Clone # 254008

**Purification** Protein A or G purified from hybridoma culture supernatant

**Immunogen** Mouse myeloma cell line NS0-derived recombinant human Tripeptidyl-Peptidase I/TPP1 Ser20-Pro563

**Accession #** O14773

**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 Type</th>
<th>Recommended Concentration</th>
<th>Sample Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 µg/mL</td>
<td>Recombinant Human Tripeptidyl-Peptidase I/TPP1</td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td>25 µg/mL</td>
<td>Conditioned cell culture medium spiked with Recombinant Human Tripeptidyl-Peptidase I/TPP1, see our available Western blot detection antibodies</td>
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</tbody>
</table>

### 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.

*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

Tripeptidyl-Peptidase I (TPP1), also known as tripeptidyl aminopeptidase, is a lysosomal peptidase which can hydrolyze tripeptides from the N-termini of oligopeptides and also possesses weak endopeptidase activity (1-3). TPP1 is a serine peptidase with a Ser-Glu-Asp catalytic triad, making it a member of the sedolisin family (4).

The TPP1 precursor undergoes autoactivation under conditions of acidic pH (4). TPP1 is expressed in many tissues, with elevated expression in tissues associated with peptide hormone production (5). Mutations in TPP1 have been shown to be a cause of classic late-infantile neuronal ceroid lipofuscinosis (CLN2), a lysosomal storage disease (6).

**References:**