**Product datasheet**

**Anti-Tripeptidyl peptidase II/TPPII antibody [EPR13202] ab180177**  

*Recombinant* RabMAb

| 1 References  | 4 Images |

### Overview

**Product name**  
Anti-Tripeptidyl peptidase II/TPPII antibody [EPR13202]

**Description**  
Rabbit monoclonal [EPR13202] to Tripeptidyl peptidase II/TPPII

**Host species**  
Rabbit

**Tested applications**  
*Suitable for:* IHC-P, WB, ICC/IF, Flow Cyt  
*Unsuitable for:* IP

**Species reactivity**  
*Reacts with:* Mouse, Rat, Human

**Immunogen**  
Recombinant fragment within Human Tripeptidyl peptidase II/TPPII. The exact sequence is proprietary.  
Database link: P29144

**Positive control**  
Jurkat, HeLa, HepG2, and fetal liver lysates; Human tonsil tissue; HeLa cells; Jurkat cells.

**General notes**  
This product was previously labelled as Tripeptidyl peptidase II

This product is a recombinant monoclonal antibody, which offers several advantages including:  
- High batch-to-batch consistency and reproducibility  
- Improved sensitivity and specificity  
- Long-term security of supply  
- Animal-free production  
For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

### Properties

**Form**  
Liquid

**Storage instructions**  

**Storage buffer**  
pH: 7.20  
Preservative: 0.01% Sodium azide
Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant

Purity: Tissue culture supernatant
Clonality: Monoclonal
Clone number: EPR13202
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab180177 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td>1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
<td></td>
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<tr>
<td>WB</td>
<td>1/1000 - 1/10000. Detects a band of approximately 138 kDa (predicted molecular weight: 138 kDa).</td>
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<tr>
<td>ICC/IF</td>
<td>1/100 - 1/250.</td>
<td></td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
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</tbody>
</table>

Application notes: Is unsuitable for IP.

Target

Relevance: Tripeptidyl peptidase II is a component of the proteolytic cascade acting downstream of the 26S proteasome in the ubiquitin-proteasome pathway. It may be able to complement the 26S proteasome function to some extent under conditions in which the latter is inhibited. Tripeptidyl peptidase II is a mammalian peptidase that, at neutral pH, removes tripeptides from the N terminus of longer peptides. The protein has a specialized function that is essential for some MHC class I antigen presentation. The protein is a high molecular mass serine exopeptidase; the amino acid sequence surrounding the serine residue at the active site is similar to the peptidases of the subtilisin class rather than the trypsin class.

Cellular localization: Cytoplasmic
**Western blot - Anti-Tripeptidyl peptidase II/TPPII antibody [EPR13202]**

All lanes: Anti-Tripeptidyl peptidase II/TPPII antibody [EPR13202] (ab180177) at 1/1000 dilution

Lane 1: Jurkat lysate
Lane 2: HeLa lysate
Lane 3: HepG2 lysate
Lane 4: fetal liver lysate

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 138 kDa

**Additional bands at:** 138 kDa. We are unsure as to the identity of these extra bands.

**Flow Cytometry - Anti-Tripeptidyl peptidase II/TPPII antibody [EPR13202] (ab180177)**

Flow Cytometrical analysis of permeabilized Jurkat cells labeling Tripeptidyl peptidase II/TPPII with ab180177 at 1/10 (red) or a rabbit IgG (negative) (green).
Immunofluorescent analysis of HeLa cells labeling Tripeptidyl peptidase II/TPPII with ab180177 at 1/100 (red) and DAPI staining (blue).

Immunohistochemical analysis of paraffin embedded Human tonsil tissue labeling Tripeptidyl peptidase II/TPPII with ab180177 at 1/50. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES”

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