### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-TAP2 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to TAP2</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: IHC-P, WB, ICC/IF</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
</tbody>
</table>

**Predicted to work with:** Mouse, Rat

**Immunogen**

Recombinant fragment corresponding to Human TAP2 aa 430-680.

Sequence:

```
YGDMLSNVGAEKVFYSMDQPNLPSGTLAPTTLQGVV
KFQDFSAYPN
RPDRPVLKGLTFTLRPGEVTALVGPNSGKSTVAALLQNL
YQPTGGQVLL
DEKPSQYEHCYLHQSQVVSQEPVLYFSGSVRNNIAYGLQ
SCEDDKVMAA
AQAAHADDFFIQEMEHGTDVGEKSGQLAAGQKQLAIAR
ALVRDPRVLI
LDEATSAALVQCEQALQDWSRGRDRTVLIAHRLQTVQR
AHQILVLQEGK L
```

Database link: [Q03519](https://www.uniprot.org/uniprot/Q03519)

**Positive control**

Recombinant Human TAP2 protein ([ab132658](https://www.abcam.com/)) can be used as a positive control in WB. Human placenta extract.

### Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7.30</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.02% Sodium azide</td>
</tr>
<tr>
<td>Constituents</td>
<td>49% PBS, 50% Glycerol</td>
</tr>
</tbody>
</table>
Purity   
Immunogen affinity purified

Clonality   
Polyclonal

Isotype   
IgG

Applications

Our Abpromise guarantee covers the use of ab180611 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 - 1/200. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
<td></td>
</tr>
<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
</tbody>
</table>

Target

Function
Involved in the transport of antigens from the cytoplasm to the endoplasmic reticulum for association with MHC class I molecules. Also acts as a molecular scaffold for the final stage of MHC class I folding, namely the binding of peptide. Nascent MHC class I molecules associate with TAP via tapasin. Inhibited by the covalent attachment of herpes simplex virus ICP47 protein, which blocks the peptide-binding site of TAP. Inhibited by human cytomegalovirus US6 glycoprotein, which binds to the lumenal side of the TAP complex and inhibits peptide translocation by specifically blocking ATP-binding to TAP1 and prevents the conformational rearrangement of TAP induced by peptide binding. Inhibited by human adenovirus E3-19K glycoprotein, which binds the TAP complex and acts as a tapasin inhibitor, preventing MHC class I/TAP association.

Involvement in disease
Bare lymphocyte syndrome 1

Sequence similarities
Belongs to the ABC transporter superfamily. ABCB family. MHC peptide exporter (TC 3.A.1.209) subfamily.
Contains 1 ABC transmembrane type-1 domain.
Contains 1 ABC transporter domain.

Domain
The peptide-binding site is shared between the cytoplasmic loops of TAP1 and TAP2.

Cellular localization
Endoplasmic reticulum membrane. The transmembrane segments seem to form a pore in the membrane.

Images
Immunocytochemistry/Immunofluorescence analysis of U2OS cells using ab180611. Blue DAPI for nuclear staining.

Anti-TAP2 antibody (ab180611) at 1/500 dilution + Human placenta extract

**Predicted band size:** 76 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

**Our Abpromise to you: Quality guaranteed and expert technical support**

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.
Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors