Product datasheet

Anti-TRP2 antibody **ab74073**

6 Abreviews  15 References  4 Images

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-TRP2 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to TRP2</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Specificity</td>
<td>ab74073 detects endogenous levels of total TRP2 protein.</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: IHC-Fr, IHC-P, WB, ELISA, ICC/IF</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide corresponding to Human TRP2 (internal sequence). synthesized peptide derived from internal of human TRP2.</td>
</tr>
<tr>
<td>Positive control</td>
<td>WB: Extracts from K562 cells ICC/IF: A549 cells</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.02% Sodium Azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: 50% Glycerol, PBS (without Mg²⁺ and Ca²⁺), 150mM Sodium chloride, pH 7.4</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Purification notes</td>
<td>The antibody was affinity purified from rabbit antiserum by affinity chromatography using epitope specific immunogen.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

**Applications**

Our Abpromise guarantee covers the use of **ab74073** 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-Fr</td>
<td>★★★★★ 1/100.</td>
<td></td>
</tr>
</tbody>
</table>
Function: Involved in regulating eumelanin and phaeomelanin levels.
Pathway: Pigment biosynthesis; melanin biosynthesis.
Sequence similarities: Belongs to the tyrosinase family.
Cellular localization: Melanosome membrane.

Images

**Abreviews**  
1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**WB**  
1/500 - 1/1000. Predicted molecular weight: 59 kDa. TRP2 protein is a single-pass type I membrane protein, these types of proteins known to aggregate when boiled therefore, we recommend heating the lysates in sample buffer for 15-20 minutes at 60-70°C instead of boiling.

**ELISA**  
1/40000.

**ICC/IF**  
1/100 - 1/500.

**Target**

- **Function**: Involved in regulating eumelanin and phaeomelanin levels.
- **Pathway**: Pigment biosynthesis; melanin biosynthesis.
- **Sequence similarities**: Belongs to the tyrosinase family.
- **Cellular localization**: Melanosome membrane.

**Images**

*Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TRP2 antibody (ab74073)*

*ab74043* staining TRP2 in human skin tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Tissue was fixed with paraformaldehyde and a heat mediated antigen retrieval step was performed using a TRIS/EDTA buffer pH 9.0. Samples were then permeabilized, followed by incubation with the primary antibody at a 1/1000 dilution for 30 minutes at 20°C. An undiluted HRP-conjugated goat polyclonal was used as secondary antibody.

*Image courtesy of Rudolf Jung by Abreview.*
ab74073 staining TRP2 in Mouse melan-ink melanocytes by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde and blocked with 5% serum for 30 hours at room temperature. Samples were incubated with primary antibody (1/100 in PBS -T+ 1% BSA) for 12 hours. An undiluted Alexa Fluor® 488-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.

All lanes: Anti-TRP2 antibody (ab74073) at 1/500 dilution

Lane 1: Extracts from K562 cells with no peptide
Lane 2: Extracts from K562 cells with peptide at 5 µg

Lysates/proteins at 5 µg per lane.

Predicted band size: 59 kDa
Observed band size: 59 kDa
Additional bands at: 117 kDa, 39 kDa. We are unsure as to the identity of these extra bands.

Immunofluorescence analysis of TRP2 in A549 cells, using ab74073 at a dilution of 1/500.

Left hand panel: no peptide
Right hand panel: with immunising peptide.

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