**Product datasheet**

**Anti-Caspase-7 antibody ab25900**

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Caspase-7 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit polyclonal to Caspase-7</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Specificity</td>
<td>ab25900 recognises Caspase-7.</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: IHC-P, WB</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Rat, Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide corresponding to Human Caspase-7 aa 1-16 (C terminal). Database link: P55210</td>
</tr>
<tr>
<td>Positive control</td>
<td>Jurkat cell lysate, human skeletal muscle cell</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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.02% Sodium azide Constituent: PBS</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</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 **ab25900** 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>Use a concentration of 2 µg/ml.</td>
<td></td>
</tr>
</tbody>
</table>
Function

Tissue specificity
Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.

Sequence similarities
Belongs to the peptidase C14A family.

Post-translational modifications
Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.

Cellular localization
Cytoplasm.

Images

<table>
<thead>
<tr>
<th>Application</th>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>⭐️⭐️⭐️⭐️⭐️</td>
<td>Use a concentration of 0.5 µg/ml. Detects a band of approximately 30 kDa (predicted molecular weight: 34 kDa).</td>
</tr>
</tbody>
</table>

**Target**

**Function**

**Tissue specificity**
Highly expressed in lung, skeletal muscle, liver, kidney, spleen and heart, and moderately in testis. No expression in the brain.

**Sequence similarities**
Belongs to the peptidase C14A family.

**Post-translational modifications**
Cleavages by granzyme B or caspase-10 generate the two active subunits. Propeptide domains can also be cleaved efficiently by caspase-3. Active heterodimers between the small subunit of caspase-7 and the large subunit of caspase-3, and vice versa, also occur.

**Cellular localization**
Cytoplasm.

**Images**

[Western blot - Anti-Caspase-7 antibody (ab25900)]

**Lane 1**: Anti-Caspase-7 antibody (ab25900) at 0.5 µg/ml
**Lane 2**: Anti-Caspase-7 antibody (ab25900) at 1 µg/ml
**Lane 3**: Anti-Caspase-7 antibody (ab25900) at 2 µg/ml

**All lanes**: Human skeletal muscle cell lysate

**Predicted band size**: 34 kDa
**Observed band size**: 30 kDa

**why is the actual band size different from the predicted?**
Immunohistochemical staining of human skeletal muscle (paraffin embedded sections) using ab25900 anti Caspase-7 at 2 µg/ml.

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

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