**Product datasheet**

**Anti-14-3-3 Tau antibody ab77268**

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-14-3-3 Tau antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Goat polyclonal to 14-3-3 Tau</td>
</tr>
<tr>
<td>Host species</td>
<td>Goat</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, ELISA</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Mouse, Rat, Rabbit, Chicken, Cow, Pig, Xenopus laevis, Orangutan</td>
</tr>
</tbody>
</table>

**Immunogen**

Synthetic peptide corresponding to Human 14-3-3 Tau aa 136-146 (internal sequence).

Sequence: C-DDRKQTIDNSQ

Database link: NP_006817.1

**Positive control**

WB: Human Brain (Hippocampus) lysate.

**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 or -80°C. Avoid repeated freeze / thaw cycles.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Purification notes</td>
<td>ab77268 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

**Applications**
**Function**
Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. Negatively regulates the kinase activity of PDPK1.

**Tissue specificity**
Abundantly expressed in brain, heart and pancreas, and at lower levels in kidney and placenta. Up-regulated in the lumbar spinal cord from patients with sporadic amyotrophic lateral sclerosis (ALS) compared with controls, with highest levels of expression in individuals with predominant lower motor neuron involvement.

**Sequence similarities**
Belongs to the 14-3-3 family.

**Post-translational modifications**
Ser-232 is probably phosphorylated by CK1.

**Cellular localization**
Cytoplasm. In neurons, axonally transported to the nerve terminals.

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**Images**

![Western blot - Anti-14-3-3 Tau antibody (ab77268)](image)

Anti-14-3-3 Tau antibody (ab77268) at 0.03 µg/ml + Human Brain (Hippocampus) in RIPA buffer at 35 µg

**Predicted band size:** 28 kDa  
**Observed band size:** 28 kDa

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Our Abpromise guarantee covers the use of ab77268 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>WB</td>
<td></td>
<td>Use a concentration of 0.03 - 0.1 µg/ml. Detects a band of approximately 28 kDa (predicted molecular weight: 28 kDa).</td>
</tr>
</tbody>
</table>
| ELISA       |           | Use at an assay dependent concentration.  
Peptide ELISA: Antibody detection limit dilution 1/4,000. |

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• We investigate all quality concerns to ensure our products perform to the highest standards

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