# Product datasheet

## Anti-Orexin Receptor 2 antibody ab189393

### Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-Orexin Receptor 2 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Goat polyclonal to Orexin Receptor 2</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Goat</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: IHC-P</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
</tr>
<tr>
<td></td>
<td>Predicted to work with: Mouse, Rat, Rabbit, Horse, Hamster, Cow, Dog, Pig, Monkey, Gorilla</td>
</tr>
</tbody>
</table>

**Immunogen**

Synthetic peptide corresponding to Human Orexin Receptor 2 aa 390-402 (Cysteine residue).

**Sequence:**

QEDRLTRGRTSTE

**Database link:** O43614

**Positive control**

Human brain cortex, brain cerebellum and testis tissues.

### Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.30  
Preservative: 0.02% Sodium azide  
Constituents: 99% Tris buffered saline, 0.5% BSA |
| **Purity**        | Immunogen affinity purified            |
| **Clonality**     | Polyclonal                             |
| **Isotype**       | IgG                                    |

### Applications
Our **Abpromise guarantee** covers the use of **ab189393** 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></td>
<td>Use a concentration of 3.75 - 7.5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
</tr>
</tbody>
</table>

### Target

- **Function**: Nonselective, high-affinity receptor for both orexin-A and orexin-B neuropeptides (PubMed:9491897, PubMed:26950369). Triggers an increase in cytoplasmic Ca(2+) levels in response to orexin-A binding (PubMed:9491897, PubMed:26950369).
- **Sequence similarities**: Belongs to the G-protein coupled receptor 1 family.
- **Domain**: The N-terminal region is required for orexin signaling.
- **Cellular localization**: Cell membrane.

### Images

**Immunohistochemical analysis of formalin-fixed, paraffin-embedded**

Human brain cortex tissue labeling Orexin Receptor 2 with ab189393 at 3.75 µg/ml.

**Immunohistochemical analysis of formalin-fixed, paraffin-embedded**

Human brain cerebellum tissue labeling Orexin Receptor 2 with ab189393 at 3.75 µg/ml.
Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human testis tissue labeling Orexin Receptor 2 with ab189393 at 3.75 µg/ml.

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