**Product datasheet**

**Anti-Orexin Receptor 1 antibody ab68718**

- **Product name**: Anti-Orexin Receptor 1 antibody
- **Description**: Rabbit polyclonal to Orexin Receptor 1
- **Host species**: Rabbit
- **Specificity**: No cross reactivity with other proteins
- **Tested applications**: Suitable for: ICC/IF, WB, IHC-P, IP
- **Species reactivity**: Reacts with: Mouse, Rat, Human
- **Immunogen**: A synthetic peptide corresponding to a sequence from the C-terminus of human Orexin Receptor 1, identical to the related mouse and rat sequence.

**Properties**

- **Form**: Liquid
- **Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
- **Storage buffer**: Preservatives: 0.025% Thimerosal (merthiolate), 0.025% Sodium azide
  Constituents: 2.5% BSA, 0.45% Sodium chloride, 0.1% Dibasic monohydrogen sodium phosphate
- **Purity**: Immunogen affinity purified
- **Clonality**: Polyclonal
- **Isotype**: IgG

**Applications**

Our Abpromise guarantee covers the use of ab68718 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>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
</tr>
</tbody>
</table>
**Function**

Moderately selective excitatory receptor for orexin-A and, with a lower affinity, for orexin-B neuropeptide. Seems to be exclusively coupled to the G(q) subclass of heteromeric G proteins, which activates the phospholipase C mediated signaling cascade.

**Sequence similarities**

Belongs to the G-protein coupled receptor 1 family.

**Cellular localization**

Cell membrane.

### Application

<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 2 µg/ml. Predicted molecular weight: 48 kDa. Can be blocked with Orexin Receptor 1 peptide (ab188501).</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use a concentration of 1 - 2 µg/ml.</td>
</tr>
<tr>
<td>IP</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
</tr>
</tbody>
</table>

### Images

Western blot - Anti-Orexin Receptor 1 antibody (ab68718) at 2 µg/ml + rat brain tissue lysate

**Predicted band size:** 48 kDa  
**Observed band size:** 48 kDa
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Orexin Receptor 1 antibody (ab68718)

ab68718 staining Orexin Receptor 1 in rat brain tissue by Immunohistochemistry (formalin fixed, paraffin embedded tissue section). Primary antibody used at 2µg/ml.

Immunocytochemistry/ Immunofluorescence - Anti-Orexin Receptor 1 antibody (ab68718)

ICC/IF image of ab68718 stained PC12 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab68718, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Orexin Receptor 1 was immunoprecipitated using 0.5mg Rat Brain tissue lysate, 5µg of Rabbit polyclonal to Orexin Receptor 1 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-). The antibody was incubated under agitation with Protein G beads for 10min, Rat Brain tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab68718.

Band: 52kDa; Orexin Receptor 1

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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 or contact our technical team.

Terms and conditions

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