

## Datasheet: 7049-5020

|                      |                           |
|----------------------|---------------------------|
| <b>Description:</b>  | SHEEP ANTI HUMAN OREXIN A |
| <b>Specificity:</b>  | OREXIN A                  |
| <b>Format:</b>       | Purified                  |
| <b>Product Type:</b> | Polyclonal Antibody       |
| <b>Isotype:</b>      | Polyclonal IgG            |
| <b>Quantity:</b>     | 1 ml                      |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                            | Yes | No | Not Determined | Suggested Dilution |
|----------------------------|-----|----|----------------|--------------------|
| Immunohistology - Frozen   | ▪   |    |                |                    |
| Immunohistology - Paraffin | ▪   |    |                |                    |
| ELISA                      | ▪   |    |                | 1/20 - 1/100       |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Species Cross Reactivity</b> | Based on sequence similarity, is expected to react with: Rhesus Monkey, Rat, Rabbit, Pig, Mouse, Horse, Dog, Chimpanzee, Bovine<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography  |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )  |

|  |   |
|--|---|
| <b>Approx. Protein Concentrations</b>    | IgG concentration 5.0 mg/ml   |
| <b>Immunogen</b>                         | Synthetic peptide, PLPDCCRQKTCSC, corresponding to amino acids 2-14 of human orexin A conjugated to KLH.  |
| <b>External Database Links</b>           | <p><b>UniProt:</b><br/> <a href="#">O43612</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b><br/> <a href="#">3060</a>    HCRT    <a href="#">Related reagents</a></p>   |
| <b>Synonyms</b>                          | OX, PPORX, PPOX   |
| <b>RRID</b>                              | AB_2117635  |
| <b>Specificity</b>                       | <p><b>Sheep anti Human orexin A antibody</b> recognizes the human orexin A subunit of orexin, also known as hypocretin. Orexin is cleaved into Orexin A, also known as hypocretin-1, a 32 amino acid excitatory neuropeptide linked to alertness and wakefulness in humans. Orexin A binds to both orexin receptors 1 and 2 with similar affinity whilst orexin B corresponding to the C terminal region of the holopeptide binds only to the orexin receptor 2.</p> <p>Mutations in the orexin gene can lead to the development of Narcolepsy 1 (<a href="#">NRCLP1</a>), a condition characterized by sleep fragmentation and daytime drowsiness, abnormal REM sleep and sleep paralysis along with other sleep related symptoms (<a href="#">Peyron et al. 2000</a>).</p> <p>Sheep anti Human orexin A antibody is a useful reagent for immunohistochemistry on formalin fixed, paraffin embedded tissue sections.</p> |
| <b>Histology Positive Control Tissue</b> | Hypothalamus  |
| <b>Storage</b>                           | <p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>   |
| <b>Guarantee</b>                         | 12 months from date of despatch   |
| <b>Health And Safety Information</b>     | Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/7049-5020">https://www.bio-rad-antibodies.com/SDS/7049-5020</a><br>10040   |
| <b>Regulatory</b>                        | For research purposes only  |

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

|                                  |   |                  |   |               |   |
|----------------------------------|---|------------------|---|---------------|---|
| <b>North &amp; South America</b> | Tel: +1 800 265 7376<br>Fax: +1 919 878 3751<br>Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a> | <b>Worldwide</b> | Tel: +44 (0)1865 852 700<br>Fax: +44 (0)1865 852 739<br>Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a> | <b>Europe</b> | Tel: +49 (0) 89 8090 95 21<br>Fax: +49 (0) 89 8090 95 50<br>Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a> |
|----------------------------------|---|------------------|---|---------------|---|

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)  
'M438068:250321'

Printed on 21 Mar 2025

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