

Datasheet: 7049-5020

BATCH NUMBER 169884

Description:	SHEEP ANTI HUMAN OREXIN A
Specificity:	OREXIN A
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.

Target Species

Human

Species Cross Reactivity

Based on sequence similarity, is expected to react with: Rhesus Monkey, Rat, Rabbit, Pig, Mouse, Horse, Dog, Chimpanzee, Bovine

N.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.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations	IgG concentration 5.0 mg/ml
Immunogen	Synthetic peptide, PLPDCCRQKTCSC, corresponding to amino acids 2-14 of human orexin A conjugated to KLH.
External Database Links	<p>UniProt: O43612 Related reagents</p> <p>Entrez Gene: 3060 HCRT Related reagents</p>
Synonyms	OX, PPORX, PPOX
RRID	AB_2117635
Specificity	<p>Sheep anti Human orexin A antibody 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 holoepitope binds only to the orexin receptor 2.</p> <p>Mutations in the orexin gene can lead to the development of Narcolepsy 1 (NRCLP1), a condition characterized by sleep fragmentation and daytime drowsiness, abnormal REM sleep and sleep paralysis along with other sleep related symptoms (Peyron et al. 2000).</p> <p>Sheep anti Human orexin A antibody is a useful reagent for immunohistochemistry on formalin fixed, paraffin embedded tissue sections.</p>
Histology Positive Control Tissue	Hypothalamus
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/7049-5020 10040
Regulatory	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 \(BUF025A\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M428014:240301'

Printed on 21 Mar 2025

© 2025 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)