

## Product datasheet

# Anti-Orexin A antibody ab6214

★★★★★ [2 Abreviews](#) [11 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-Orexin A antibody
<b>Description</b>	Rabbit polyclonal to Orexin A
<b>Host species</b>	Rabbit
<b>Specificity</b>	Immunohistochemical analysis of rat brain indicates a good specificity for this serum.
<b>Tested applications</b>	<b>Suitable for:</b> ELISA, IHC-Fr, IHC-FoFr, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Cow
<b>Immunogen</b>	Synthetic peptide corresponding to Cow Orexin A aa 1-100 conjugated to keyhole limpet haemocyanin (Glutaraldehyde). Database link: <a href="#">P56717</a>

 [Run BLAST with](#)

 [Run BLAST with](#)

### General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Add glycerol to a final volume of 50% for extra stability and aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7
<b>Purity</b>	Whole antiserum
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

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## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab6214 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent concentration.
IHC-Fr		Use at an assay dependent concentration.
IHC-FoFr		Use at an assay dependent concentration. PubMed: 16052497 Following perfusion fixation with 4% PFA, cryoprotect the tissue in 20% sucrose overnight. Cut on cryostat sections for free floating IHC. Incubate primary antibody for 48 hrs at 4 degree C.
IHC-P	★★★★★ (2)	Use at an assay dependent concentration.

## Target

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### Relevance

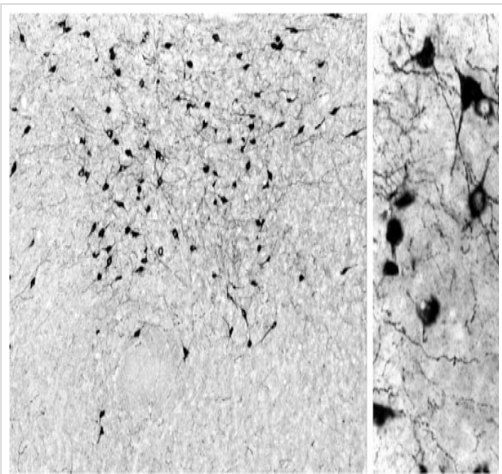
Orexin A (hypocretin 1) a 33 amino acid peptide and orexin B (hypocretin 2), a 28 amino acid peptide, are both derived from a common 130 amino acid precursor, prepro orexin. Orexin A and Orexin B stimulate food consumption when administered intracerebroventricularly to rats. Orexin gene expression in the brain is highly restricted to distinct populations of neurons located in specific hypothalamic regions, including the lateral hypothalamic area (LHA), a region implicated in feeding behaviour. Orexin A and orexin B bind to and activate two closely related G protein coupled receptors (GPCRs), termed Orexin 1 (OX1) and Orexin 2 (OX2) receptors. Dysfunction of the orexin peptide system has been linked to narcolepsy.

### Cellular localization

Rough endoplasmic reticulum. Cytoplasmic vesicle. Cell junction, synapse. Note: Associated with perikaryal rough endoplasmic reticulum as well as cytoplasmic large granular vesicles at synapses.

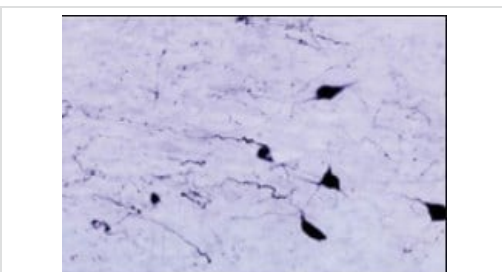
## Images

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Orexin A antibody (ab6214)

Immunohistochemical staining of orexin A in rat lateral hypothalamus using Anti-Orexin A antibody (ab6214) at 1:50000 dilution. The primary antibody was detected with the biotinylated secondary antibody-ABC method and nickel-diaminobenzidine chromogen.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Orexin A antibody (ab6214)

Immunohistochemical staining of orexin A in rat zona incerta neurons using Rabbit antibody to Orexin A (ab6214) at a dilution of 1 in 1000.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

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- 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

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