

Product datasheet

Anti-CGRP antibody ab47027

★★★★★ 7 Abreviews 13 References 3 Images

Overview

Product name	Anti-CGRP antibody
Description	Rabbit polyclonal to CGRP
Host species	Rabbit
Specificity	The immunogen used to raise this antibody has 78% homology with the human CGRP protein. Previous batches of ab47027 have shown to work in human tissue. Please contact Abcam Scientific Support for more information.
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Rat Predicted to work with: Mouse 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Rat CGRP. Read Abcam's proprietary immunogen policy (Peptide available as ab47101 .)
Positive control	IHC-P: FFPE rat dorsal root ganglion, spinal cord and rat thyroid tissue sections.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab47027** 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
IHC-P	★★★★☆	Use a concentration of 0.1 - 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

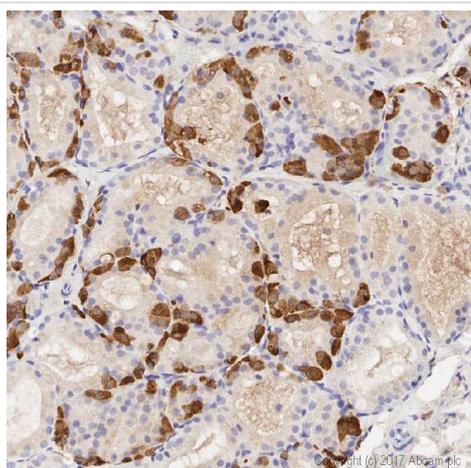
Relevance

CGRP is present in C-cells of the thyroid and in central and peripheral nerves. CGRP has several important physiologic roles: it is a potent vasodilator, and can affect the force and rate of heart beat; it can modulate acetylcholine receptor function at the neuromuscular junction; it has been demonstrated to block tolerance to morphine; and it can modulate antigen presentation in Langerhans cells in the skin. Despite these important physiologic functions, therapeutic strategies using CGRP have been impeded due to the lack of a cloned CGRP receptor with which ligands could be developed.

Cellular localization

Endoplasmic reticulum and Secreted

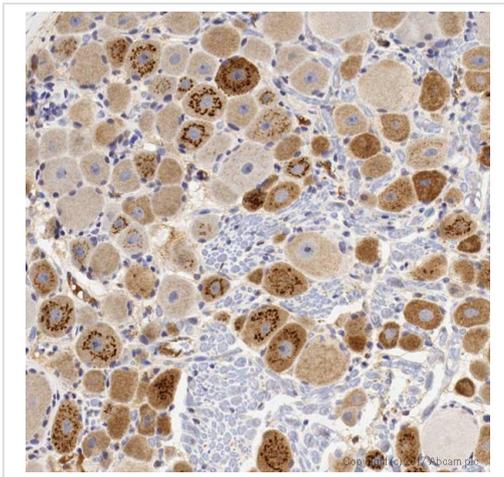
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CGRP antibody (ab47027)

IHC image of CGRP staining in a Rat normal thyroid formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab47027, 0.1 µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CGRP antibody (ab47027)

IHC image of CGRP staining in rat dorsal root ganglion formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab47027, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CGRP antibody (ab47027)

IHC-P image of CGRP staining on Rat spinal cord sections using ab47027 (1:400). The sections were deparaffinized and subjected to heat mediated antigen retrieval. The sections were then blocked using 1% BSA at 21°C for 10 min. The primary antibody was used 21°C for 2 hours.

This image is courtesy of an abreview submitted by Carl Hobbs, King's College London, United Kingdom

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