

Anti-Orexin B antibody [EPR22803-18] ab255293

重组 RabMAb

7 图像

概述

产品名称	Anti-Orexin B抗体[EPR22803-18]
描述	兔单克隆抗体[EPR22803-18] to Orexin B
宿主	Rabbit
经测试应用	适用于: Dot blot, IHC-Fr, IHC-P, ELISA 不适用于: Flow Cyt, ICC/IF, IP or WB
种属反应性	与反应: Mouse, Rat
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	Dot Blot: Orexin B peptide (aa69-96). IHC-P: Mouse and rat hypothalamus tissue. IHC-Fr: Mouse and rat hypothalamus tissue.
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR22803-18

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab255293于以下的经测试应用

“应用说明”部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Dot blot		1/1000.
IHC-Fr		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6.0 before commencing with IHC staining protocol.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ELISA		Use a concentration of 1 µg/ml.

应用说明

Is unsuitable for Flow Cyt, ICC/IF, IP or WB.

靶标

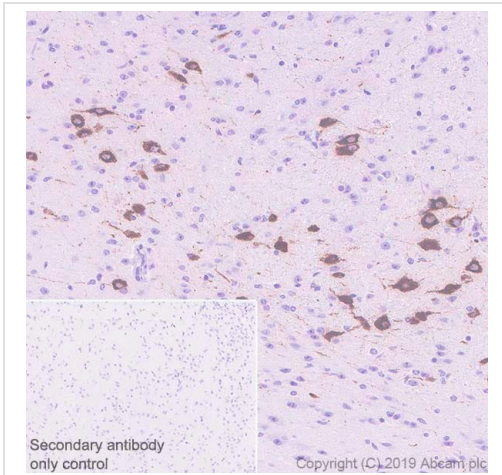
相关性

The hypothalamus acts as a major regulatory center involved in the control of feeding behavior and energy homeostasis. Several neuropeptides and proteins have been shown to be involved in the regulation of these processes. 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, which is encoded by a gene localized to human chromosome 17q21. 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 behavior.

细胞定位

Associated with perikaryal rough endoplasmic reticulum as well as cytoplasmic large granular vesicles at synapses.

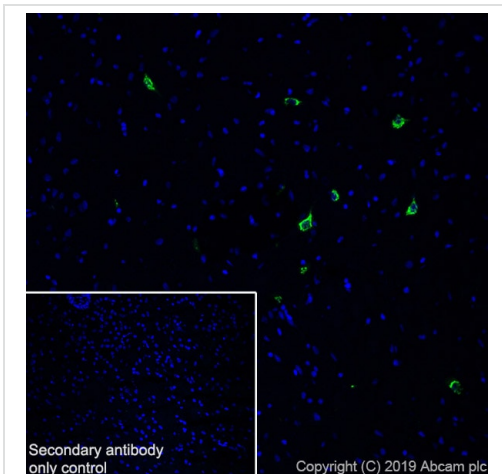
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Orexin B antibody [EPR22803-18] (ab255293)

Immunohistochemical analysis of paraffin-embedded mouse hypothalamus tissue labeling Orexin B with ab255293 at 1/1000 dilution (0.468 $\mu\text{g/ml}$) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in mouse hypothalamus (PMID: 9419374) is observed. The section was incubated with ab255293 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).



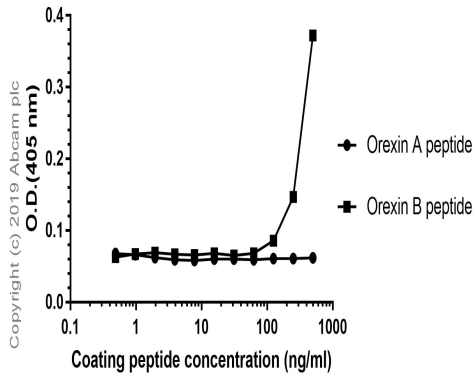
Immunohistochemistry (Frozen sections) - Anti-Orexin B antibody [EPR22803-18] (ab255293)

Immunohistochemical analysis of 4% PFA fixed 0.2% Triton X-100 permeabilized frozen rat hypothalamus tissue labeling Orexin B with ab255293 at 1/500 (0.94 $\mu\text{g/ml}$) dilution followed by **ab150077** AlexaFluor[®]488 Goat anti-Rabbit secondary at 1/1000 (2 $\mu\text{g/ml}$) dilution. The nuclear counterstain was DAPI (Blue). Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was **ab150077** AlexaFluor[®]488 Goat anti-Rabbit secondary at 1/1000 (2 $\mu\text{g/ml}$) dilution.

Positive staining on hypothalamic neurons (PMID: 9822755).

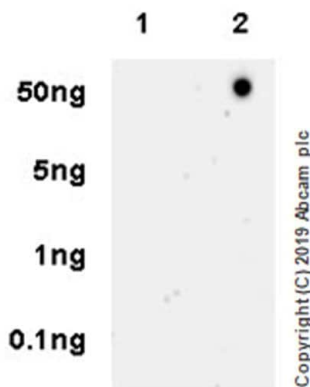
Direct ELISA antibody dose-response curve



ELISA - Anti-Orexin B antibody [EPR22803-18]

(ab255293)

Direct ELISA antigen dose-response curve using ab255293 at 1 µg/mL. Antigen (mouse Orexin B peptide) concentration of 0.488-500 ng/mL. [ab97048](#) Goat Anti-Rabbit IgG H&L (Alkaline Phosphatase) at 1/5000 was used as the secondary antibody.



Dot Blot - Anti-Orexin B antibody [EPR22803-18]

(ab255293)

Dot Blot - Anti-Orexin B antibody [EPR22803-18] (ab255293 at a 1/1000 dilution).

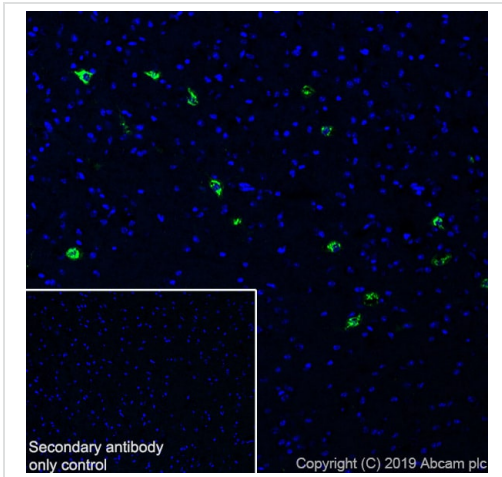
Lane 1: Orexin A peptide (aa33-65).

Lane 2: Orexin B peptide (aa69-96).

Blocking/Dilution buffer: 5% NFDm/TBST.

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#) at a 1/100000 dilution) secondary antibody.

Exposure time 3 mins.

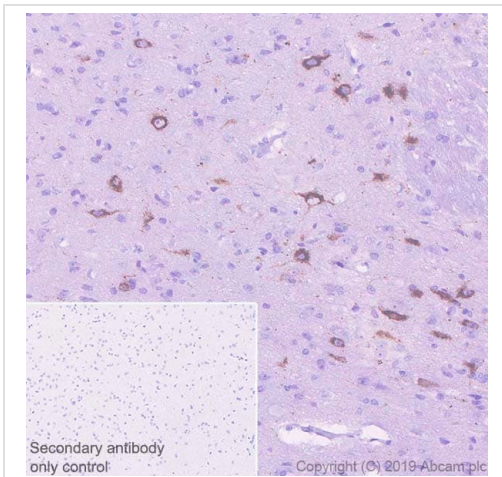


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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Orexin B antibody [EPR22803-18] (ab255293)

Immunohistochemical analysis of paraffin-embedded rat hypothalamus tissue labeling Orexin B with ab255293 at 1/1000 dilution (0.468 µg/ml) followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Cytoplasmic staining in rat hypothalamus (PMID: 9419374) is observed. The section was incubated with ab255293 for 15 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument Counterstained with hematoxylin. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20 mins.

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Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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

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