abcam

Product datasheet

Anti-CaMKII antibody [EP1829Y] - Low endotoxin, Azide free ab219365

重组 RabMAb

4 图像

概述

产品名称	Anti-CaMKII抗体[EP1829Y] - Low endotoxin, Azide free
描述	兔单克隆抗体[EP1829Y] to CaMKII - Low endotoxin, Azide free
宿主	Rabbit
特异性	The peptide immunogen is highly conserved between CaMKII alpha, beta, gamma, and delta.
经测试应用	**适用于:** IHC-P, ICC/IF, WB **不适用于:** Flow Cyt or IP
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Mouse brain, rat brain and human fetal brain tisse lysates. IHC-P: Human hepatocellulas carcinoma tissue. ICC/IF: U87-MG and PC12 cells.
常规说明	ab219365 is the carrier-free version of **ab52476**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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**.

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.20 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EP1829Y
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab219365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。

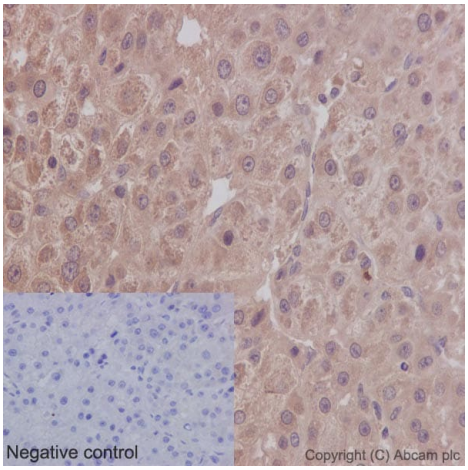
应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.

应用说明 Is unsuitable for Flow Cyt or IP.

靶标

功能	CaM-kinase II (CAMK2) is a prominent kinase in the central nervous system that may function in long-term potentiation and neurotransmitter release. Member of the NMDAR signaling complex in excitatory synapses it may regulate NMDAR-dependent potentiation of the AMPAR and synaptic plasticity.
序列相似性	Belongs to the protein kinase superfamily. CAMK Ser/Thr protein kinase family. CaMK subfamily. Contains 1 protein kinase domain.
细胞定位	Cell junction > synapse > presynaptic cell membrane. Cell junction > synapse. Postsynaptic lipid rafts.

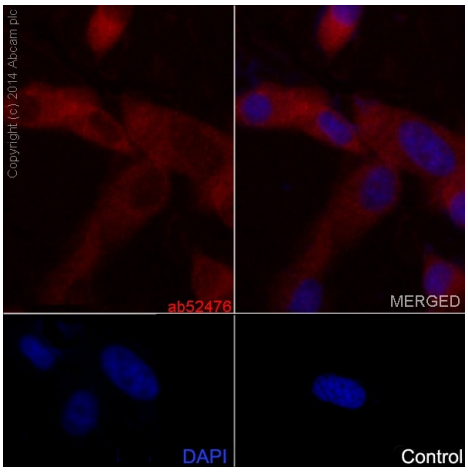
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CaMKII antibody [EP1829Y] - Low endotoxin, Azide free (ab219365)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human hepatocellular carcinoma tissue labelling CaMKII with purified **ab52476** at 1/500. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. A prediluted HRP-polymer conjugated anti-rabbit IgG was used as the secondary antibody. Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52476**).

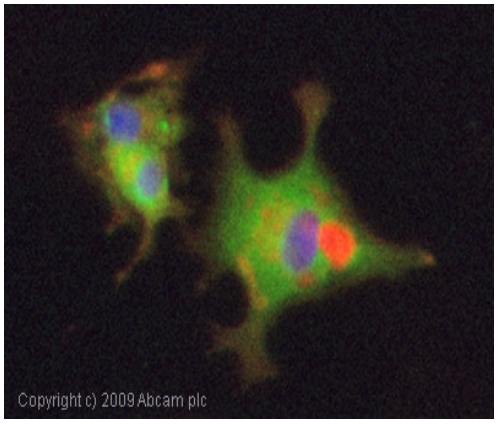


Immunocytochemistry/ Immunofluorescence - Anti-CaMKII antibody [EP1829Y] - Low endotoxin, Azide free (ab219365)

Immunocytochemistry/Immunofluorescence analysis of U87-MG cells labelling CaMKII with purified **ab52476** at 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% aTriton X-100. An Alexa Fluor® 555-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain.

Control: primary antibody (1/250) and secondary antibody, **ab150113**, an Alexa Fluor® 488-conjugated goat anti-mouse IgG (1/500).

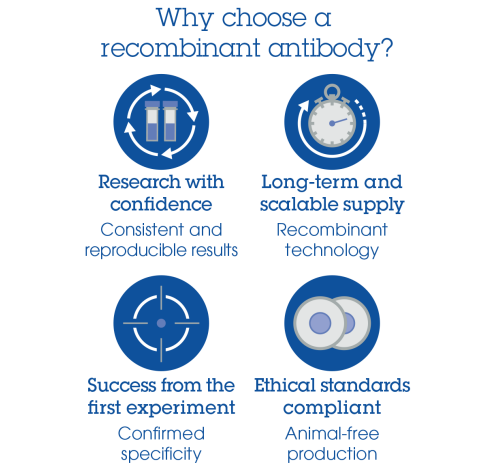
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52476**).



Immunocytochemistry/ Immunofluorescence - Anti-CaMKII antibody [EP1829Y] - Low endotoxin, Azide free (ab219365)

ICC/IF image of unpurified **ab52476** stained PC12 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1% BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (**ab52476**, 1µg/ml) overnight at +4°C. The secondary antibody (green)ÿwas Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab52476**).



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