abcam

Product datasheet

Anti-Cannabinoid Receptor II antibody ab45942

10 Abreviews 19 References 4 图像

概述

产品名称	Anti-Cannabinoid Receptor II抗体
描述	**兔多克隆抗体**to Cannabinoid Receptor II
宿主	Rabbit
特异性	According to BLAST results, the antibody could cross-react with both rat isoforms. No experiments were done to confirm this possibility.
经测试应用	**适用于:** IHC-FoFr, WB, IHC-P, ICC/IF
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Synthetic peptide corresponding to Rat Cannabinoid Receptor II aa 200-300 conjugated to keyhole limpet haemocyanin. (Peptide available as **ab45941**)
阳性对照	ab45942 gave a positive result in the following tissue lysates: Rat Spinal Cord, and Mouse Thymus. ICC/IF: PC12 cell line

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 or -80°C. Avoid freeze / thaw cycle.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
纯度	Immunogen affinity purified
克隆	**多克隆**
同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用ab45942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-FoFr	★★★★☆ (1)	1/300.
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 40 kDa (predicted molecular weight: 45 kDa).
IHC-P	★★★★☆ (4)	Use at an assay dependent concentration.
ICC/IF	★★★☆☆ (2)	Use a concentration of 10 µg/ml.

靶标

功能 Heterotrimeric G protein-coupled receptor for endocannabinoid 2-arachidonoylglycerol mediating inhibition of adenylate cyclase. May function in inflammatory response, nociceptive transmission and bone homeostasis.

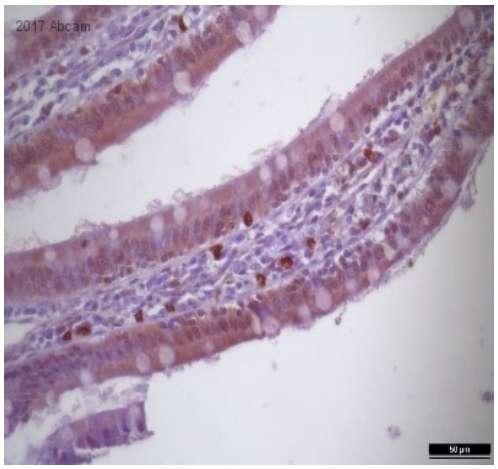
组织特异性 Preferentially expressed in cells of the immune system with higher expression in B cells and NK cells (at protein level). Expressed in skin in suprabasal layers and hair follicles (at protein level). Highly expressed in tonsil and to a lower extent in spleen, peripheral blood mononuclear cells, and thymus. PubMed:14657172 could not detect expression in normal brain. Expressed in brain by perivascular microglial cells and dorsal root glanglion sensory neurons (at protein level).

序列相似性 Belongs to the G-protein coupled receptor 1 family.

翻译后修饰 Constitutively phosphorylated on Ser-352; phosphorylation increases cell internalization and desensitizes the receptor.

细胞定位 Cell membrane. Cell projection > dendrite. Perikaryon. Localizes to apical dendrite of pyramidal neurons.

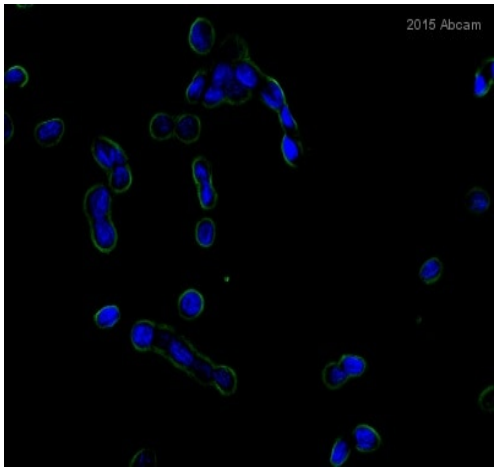
图片



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cannabinoid Receptor II antibody (ab45942)

This image is courtesy of an Abreview submitted by Mehmet Ozbek

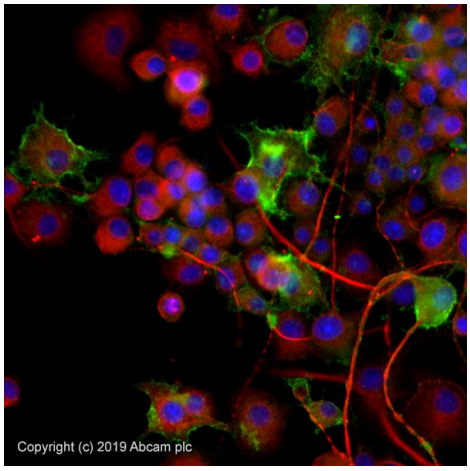
ab45942 staining Cannabinoid Receptor II in Rat ileum tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with Bouin's solution and blocked with 10% BSA for 10 minutes at 25°C; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody for 17 hours at 4°C. A Biotin-conjugated Goat anti-rabbit IgG polyclonal (1/100) was used as the secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-Cannabinoid Receptor II antibody (ab45942)

Image courtesy of an anonymous Abreview.

Immunocytochemical immunofluorescence analysis of methanol-fixed HT29 human cell line, labelling cannabinoid receptor II with ab45942 at 1/50 dilution incubated for 18 hours at 4°C in 1% BSA. Fixed cells were permeabilized with 0.25% Tween. Secondary used was a Goat anti-Rabbit polyclonal Alexa Fluor® 488. Counterstain is DAPI against nuclear DNA.



Immunocytochemistry/ Immunofluorescence - Anti-Cannabinoid Receptor II antibody (ab45942)

ab45942 staining Cannabinoid Receptor II in PC12 cells. The cells were fixed with 100% methanol (5 min) at room temperature, and then incubated with PBS containing 10% goat serum, 0.3 M glycine, 1% BSA and 0.1% tween for 1h at room temperature to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab45942 at 10µg/ml and **ab7291** (Mouse monoclonal to alpha Tubulin - Loading Control) used at a 1/1000 dilution overnight at +4°C. The secondary antibodies were **ab150081**, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed, (pseudo-colored green) and **ab150120**, Goat polyclonal Secondary Antibody to Mouse IgG - H&L (Alexa Fluor® 594) preadsorbed, (colored red), both used at a 1/1000 dilution for 1 hour at room temperature. DAPI was used to stain the cell nuclei (colored blue) at a concentration of 1.43 µM for 1hour at room temperature.

Western blot - Anti-Cannabinoid Receptor II antibody (ab45942)

All lanes : Anti-Cannabinoid Receptor II antibody (ab45942) at 1 µg/ml

Lane 1 : Rat spinal cord tissue lysate
Lane 2 : Mouse thymus tissue lysate

Lysates/proteins at 10 µg per lane.

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 45 kDa
Observed band size: 45 kDa

Exposure time: 8 minutes

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