

Product datasheet

Anti-Cannabinoid Receptor I antibody ab23703

★★★★☆ 17 Abreviews 36 References 5 Images

Overview

Product name	Anti-Cannabinoid Receptor I antibody
Description	Rabbit polyclonal to Cannabinoid Receptor I
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, IHC-Fr, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Dog, Human Predicted to work with: Cow, Chimpanzee, Macaque monkey
Immunogen	Synthetic peptide: MSVSTD TSAE AL , corresponding to C terminal amino acids 461-472 of Human Cannabinoid Receptor I (Peptide available as ab50542 .) Run BLAST with Run BLAST with
Positive control	Human cerebellum or murine brain sections.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 50% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab23703** in the following tested applications.

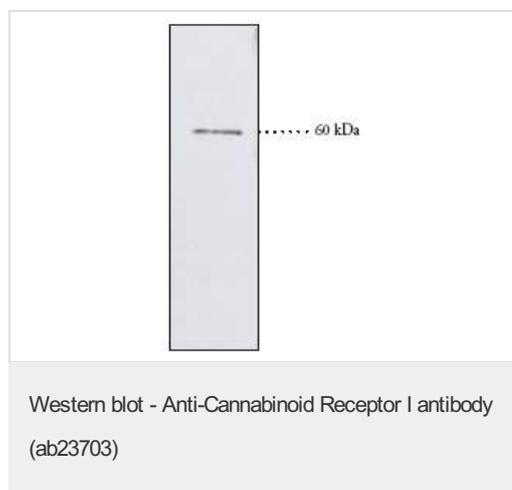
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	1/200. Detects a band of approximately 60 kDa (predicted molecular weight: 53 kDa). Can be blocked with Cannabinoid Receptor I peptide (ab50542) .
IHC-P	★★★★☆	Use at an assay dependent concentration.
IHC-Fr	★★★★★	1/300. Detection with an ABC system is recommended.
ICC/IF	★★★★☆	1/50.

Target

Function	Involved in cannabinoid-induced CNS effects. Acts by inhibiting adenylate cyclase. Could be a receptor for anandamide. Inhibits L-type Ca(2+) channel current. Isoform 2 and isoform 3 have altered ligand binding.
Tissue specificity	Widely expressed.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Cellular localization	Cell membrane.

Images



Anti-Cannabinoid Receptor I antibody (ab23703) + Human cerebellum at 30 µg

Predicted band size: 53 kDa

Observed band size: 60 kDa

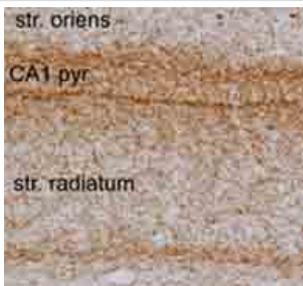
[why is the actual band size different from the predicted?](#)

Secondary antibody - [anti-rabbit HRP \(ab6721\)](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cannabinoid Receptor I antibody (ab23703)

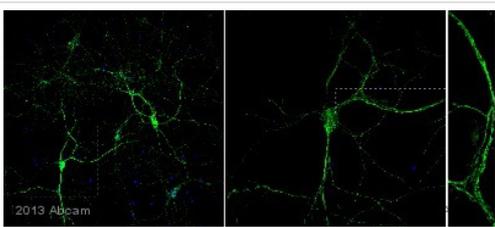
Immunoperoxidase staining of CA region of rat hippocampus with the Cannabinoid Receptor I antibody (ab23703, 4ug/ml). the majority of the protein is localized in the pre-synaptic axons, shown as brown particulaes. A few neurons also show cytoplasm staining.



Immunohistochemistry (Frozen sections) - Anti-Cannabinoid Receptor I antibody (ab23703)

Image from Laurén HB et al, PLoS One. 2010 May 20;5(5):e10733, Fig 5.

ab23703 staining Cannabinoid Receptor I in rat brain tissue by Immunohistochemistry (Frozen sections). After fixation in 4% PFA in PBS (pH 7.4), brains were cryoprotected in 30% sucrose in PBS at +4°C, frozen, and thereafter kept at -80°C until used. For the immunostaining, brains were cryosectioned in 30 µm slices, collected in PBS (pH 7.4), and processed in a free-floating system. Slices were first incubated in the blocking solution (BS) containing 2% bovine serum albumin, 2% goat serum, and 0.1% Triton X-100 in PBS (pH 7.4) for 1 hour at room temperature, and thereafter with the primary antibody for 24–48 hours at +4°C in BS at a 1/1000 dilution. After washing in PBS, slices were incubated with the biotin-conjugated secondary antibody (1/4000) in BS, rinsed with PBS, and incubated with the avidin-peroxidase conjugate in BS for 1 hour at room temperature. The staining was detected using 3,3-diaminobenzidinetetrahydrochloride as a chromogen.

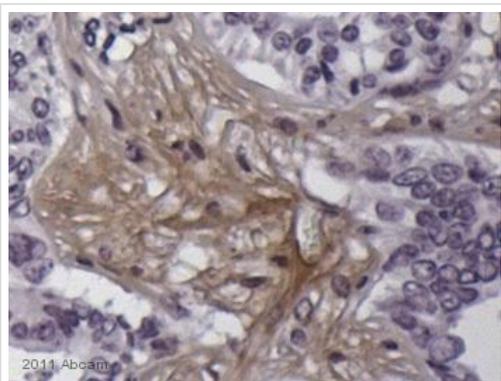


Immunocytochemistry/ Immunofluorescence - Anti-Cannabinoid Receptor I antibody (ab23703)

This image is courtesy of an anonymous Abreview

Immunofluorescence analysis of mouse cultured hippocampal neurons, staining Cannabinoid Receptor I with ab23703.

Cells were fixed with paraformaldehyde, permeabilized with 0.05% Saponin and blocked with 10% fetal calf serum for 2 hours at 4°C. Samples were incubated with primary antibody (1/200 in 0.05% Saponin + fetal calf serum) for 12 hours at 23°C. An AlexaFluor®488-conjugated goat anti-rabbit polyclonal IgG (1/400) was used as the secondary antibody.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cannabinoid Receptor I antibody (ab23703)

Courtesy of an anonymous Abreview

ab23703 staining Cannabinoid Receptor I in human pancreas tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 5% serum for 1 hour at room temperature; antigen retrieval was by heat mediation in a citrate buffer. Samples were incubated with primary antibody (1/50 in PBS) for 8 hours at 4°C. A Biotin-conjugated Goat anti-rabbit IgG polyclonal (1/1000) was used as the secondary antibody.

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