

CB2 (H-60): sc-25494

BACKGROUND

The cannabinoid receptors (CB1 and CB2) are G protein-coupled receptors that inhibit adenylate cyclase activity in response to psychoactive cannabinoids. CB1 is expressed in brain tissue and, in low levels, in testis. CB2 is expressed only by cells of the immune system. The cannabinoid receptors mediate most of the cannabinoid-induced responses in a dose-dependent, stereoselective manner. This response system is thought to be involved in specific brain functions, such as nociception, control of movement, memory and neuroendocrine regulation, as well as having a possible role in brain development. In addition, CB1 may mediate the addictive behavior involved with the use of psychoactive cannabinoids, such as THC in marijuana.

CHROMOSOMAL LOCATION

Genetic locus: CNR2 (human) mapping to 1p36.11; Cnr2 (mouse) mapping to 4 D3.

SOURCE

CB2 (H-60) is a rabbit polyclonal antibody raised against amino acids 301-360 mapping at the C-terminus of CB2 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as agarose conjugate for immunoprecipitation, sc-25494 AC, 500 µg/0.25 ml agarose in 1 ml.

APPLICATIONS

CB2 (H-60) is recommended for detection of CB2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for CB2 siRNA (h): sc-39912, CB2 siRNA (m): sc-39913, CB2 siRNA (r): sc-270169, CB2 shRNA Plasmid (h): sc-39912-SH, CB2 shRNA Plasmid (m): sc-39913-SH, CB2 shRNA Plasmid (r): sc-270169-SH, CB2 shRNA (h) Lentiviral Particles: sc-39912-V, CB2 shRNA (m) Lentiviral Particles: sc-39913-V and CB2 shRNA (r) Lentiviral Particles: sc-270169-V.

Molecular Weight of CB2: 45 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209 or Jurkat whole cell lysate: sc-2204.

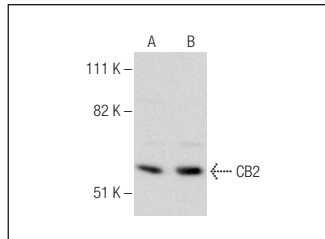
STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

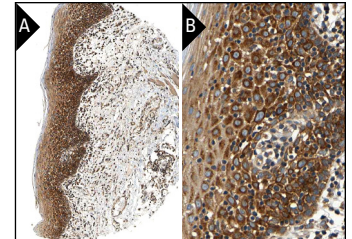
RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA



CB2 (H-60): sc-25494. Western blot analysis of CB2 expression in HL-60 (A) and Jurkat (B) whole cell lysates.



CB2 (H-60): sc-25494. Immunoperoxidase staining of formalin fixed, paraffin-embedded human oral mucosa tissue showing cytoplasmic staining of surface epithelial cells at low (A) and high (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

SELECT PRODUCT CITATIONS

- Wright, K., et al. 2005. Differential expression of cannabinoid receptors in the human colon: cannabinoids promote epithelial wound healing. *Gastroenterology* 129: 437-453.
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- Esposito, E., et al. 2011. Effects of palmitoylethanolamide on release of mast cell peptidases and neurotrophic factors after spinal cord injury. *Brain Behav. Immun.* 25: 1099-1112.
- Fonseca, B.M., et al. 2012. Characterisation of the endocannabinoid system in rat haemochorial placenta. *Reprod. Toxicol.* 34: 347-356.
- Zheng, J.L., et al. 2012. Cannabinoid receptor type 2 is time-dependently expressed during skin wound healing in mice. *Int. J. Legal Med.* 126: 807-814.
- Liu, X., et al. 2012. Betulinic acid targets YY1 and ErbB2 through cannabinoid receptor-dependent disruption of microRNA-27a: ZBTB10 in breast cancer. *Mol. Cancer Ther.* 11: 1421-1431.
- Aguilera, M., et al. 2013. Environment-related adaptive changes of gut commensal microbiota do not alter colonic toll-like receptors but modulate the local expression of sensory-related systems in rats. *Microb. Ecol.* 66: 232-243.


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