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Goat Anti-Cannabinoid Receptor 2 Antibody

Peptide-affinity purified goat antibody
Catalog # AF1186a

Specification

Goat Anti-Cannabinoid Receptor 2 Antibody - Product Information

Application	**WB**
Primary Accession	P34972
Other Accession	NP_001832, 1269
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5mg/ml**
Isotype	**IgG**
Calculated MW	**39681**

Goat Anti-Cannabinoid Receptor 2 Antibody - Additional Information

Gene ID 1269

Other Names
Cannabinoid receptor 2, CB-2, CB2, hCB2, CX5, CNR2, CB2A, CB2B

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-Cannabinoid Receptor 2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-Cannabinoid Receptor 2 Antibody - Protein Information

Name CNR2

Synonyms CB2A, CB2B

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

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell projection, dendrite. Perikaryon Note=Localizes to apical dendrite of pyramidal neurons.

Tissue Location
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 ganglion sensory neurons (at protein level). Two isoforms are produced by alternative promoter usage and differ only in the 5' UTR: isoform CB2A is observed predominantly in testis with some expression in brain, while isoform CB2B is predominant in spleen and leukocytes

Goat Anti-Cannabinoid Receptor 2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-Cannabinoid Receptor 2 Antibody - Images



AF1186a (1.5 µg/ml) staining of Human Brain (Hippocampus) lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-Cannabinoid Receptor 2 Antibody - Background

The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and

pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. The cannabinoid receptors are members of family 1 of the G-protein-coupled receptors.

Goat Anti-Cannabinoid Receptor 2 Antibody - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.
Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.
Opposite changes in cannabinoid CB1 and CB2 receptor expression in human gliomas. De Jes□s ML, et al. Neurochem Int, 2010 May-Jun. PMID 20307616.
The levels of the endocannabinoid receptor CB2 and its ligand 2-arachidonoylglycerol are elevated in endometrial carcinoma. Guida M, et al. Endocrinology, 2010 Mar. PMID 20133454.
Functional consequences of nonsynonymous single nucleotide polymorphisms in the CB2 cannabinoid receptor. Carrasquer A, et al. Pharmacogenet Genomics, 2010 Mar. PMID 20124950.

Goat Anti-Cannabinoid Receptor 2 Antibody - Citations

- Cannabinoid Receptors Are Overexpressed in CLL but of Limited Potential for Therapeutic Exploitation.