

**Goat Anti-Cannabinoid Receptor 2 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1186a****Specification**

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**Goat Anti-Cannabinoid Receptor 2 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P34972</a>
Other Accession	<a href="#">NP_001832</a> , <a href="#">1269</a>
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

**Dilution**

WB~~1:1000

E~~N/A

**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**

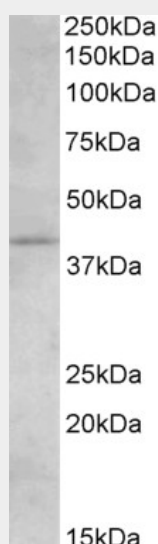
Preferentially expressed in cells of the immune system with higher expression in B-cells and NK cells (at protein level). Expressed in skin in suprabasal layers and hair follicles (at protein level). Highly expressed in tonsil and to a lower extent in spleen, peripheral blood mononuclear cells, and thymus. 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 Cytometry](#)
- [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 Thiazolinedione-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 Jesus 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.](#)