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## Summary

<b>Production Name</b>	CB2 Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	CNR2
<b>Alternative Names</b>	CNR2; Cannabinoid receptor 2; CB-2; CB2; hCB2; CX5
<b>Gene ID</b>	1269.0
<b>SwissProt ID</b>	P34972.The antiserum was produced against synthesized peptide derived from human CNR2. AA range:191-240

## Application

<b>Dilution Ratio</b>	WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.
<b>Molecular Weight</b>	33kD

## Background

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**Product Name: CB2 Rabbit Polyclonal Antibody**  
**Catalog #: APRab08033**

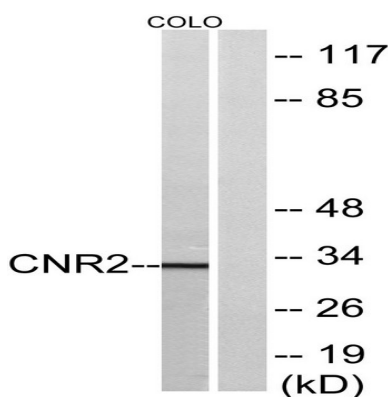


The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They 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. [provided by RefSeq, Jul 2008],disease:Allelic variation at the CB2 locus is associated to genetic predisposition for depression in Japanese populations.,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.,PTM:Constitutively phosphorylated on Ser-352; phosphorylation increases cell internalization and desensitizes the receptor.,similarity:Belongs to the G-protein coupled receptor 1 family.,subcellular location:Localizes to apical dendrite of pyramidal neurons.,tissue specificity: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),

## Research Area

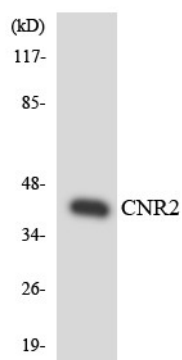
Neuroactive ligand-receptor interaction;

## Image Data

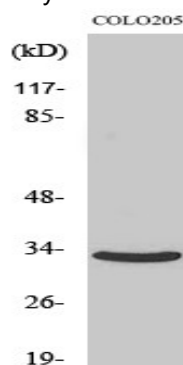


Western blot analysis of lysates from COLO205 cells, using CNR2 Antibody. The lane on the right is blocked with the synthesized peptide.

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Western blot analysis of the lysates from HT-29 cells using CNR2 antibody.



Western Blot analysis of various cells using CB2 Polyclonal Antibody

## **Note**

For research use only.