



# CB1 Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-13163
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	CNR1
<b>Protein Name</b>	Cannabinoid receptor 1
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CNR1. AA range:151-200
<b>Specificity</b>	CB1 Polyclonal Antibody detects endogenous levels of CB1 protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CNR1; CNR; Cannabinoid receptor 1; CB-R; CB1; CANN6
<b>Observed Band</b>	53kD
<b>Cell Pathway</b>	Cell membrane ; Multi-pass membrane protein . Membrane raft . Mitochondrion outer membrane . Cell projection, axon . Cell junction, synapse, presynapse . Unexpectedly, in the mitochondria, the C-terminus is located in the mitochondrial intermembrane space, a compartment topologically considered as extracellular. In canonical seven-transmembrane G-protein coupled receptors, the C-terminus is cytosolic (By similarity). Found on presynaptic axon terminals in some GABAergic neurons in the somatosensory cortex (By similarity). .
<b>Tissue Specificity</b>	Widely expressed, with highest levels in fetal and adult brain. Expression levels of isoform 2 and isoform 3 are much lower than those of isoform 1.
<b>Function</b>	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.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Interacts (via C-terminus) with CNRIP1.,tissue specificity:Widely expressed.,
<b>Background</b>	This gene encodes one of two cannabinoid receptors. The cannabinoids, principally delta-9-tetrahydrocannabinol and synthetic analogs, are psychoactive



ingredients of marijuana. The cannabinoid receptors are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family, which inhibit adenylate cyclase activity in a dose-dependent, stereoselective and pertussis toxin-sensitive manner. The two receptors have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. Multiple transcript variants encoding two different protein isoforms have been described for this gene. [provided by RefSeq, May 2009],

**matters needing attention**

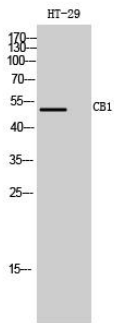
Avoid repeated freezing and thawing!

**Usage suggestions**

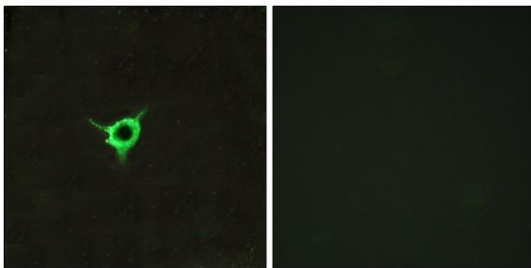
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



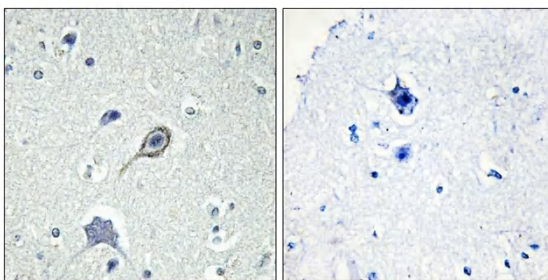
## Products Images



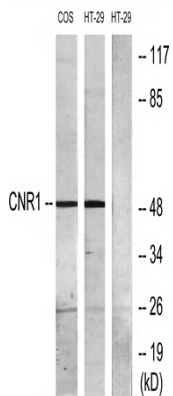
Western Blot analysis of HT-29 cells using CB1 Polyclonal Antibody



Immunofluorescence analysis of LOVO cells, using CNR1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using CNR1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HT-29 and COS7 cells, using CNR1 Antibody. The lane on the right is blocked with the synthesized peptide.