

# CNR1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CNR1.

Catalog # AT1574a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P21554</a>
<b>Other Accession</b>	<a href="#">NM_016083</a>
<b>Reactivity</b>	Human, Rat
<b>Host</b>	mouse
<b>Clonality</b>	monoclonal
<b>Isotype</b>	IgG2b Kappa
<b>Clone Names</b>	2F9
<b>Calculated MW</b>	52858

## Additional Information

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<b>Gene ID</b>	1268
<b>Other Names</b>	Cannabinoid receptor 1, CB-R, CB1, CANN6, CNR1, CNR
<b>Target/Specificity</b>	CNR1 (NP_057167, 1 a.a. ~ 110 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Dilution</b>	WB~~1:500~1000 E~~N/A
<b>Format</b>	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
<b>Storage</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
<b>Precautions</b>	CNR1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

## Background

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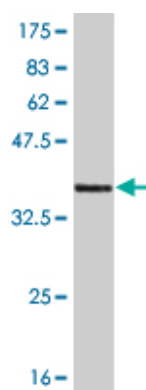
This gene encodes one of two cannabinoid receptors. The cannabinoids, principally delta-9-tetrahydrocannabinol and synthetic analogs, are psychoactive ingredients of marijuana. The cannabinoid receptors are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family, which inhibit 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.

## References

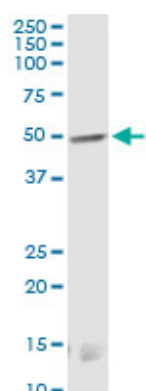
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Endocannabinoid Pro129Thr FAAH functional polymorphism but not 1359G/A CNR1 polymorphism is associated with antipsychotic-induced weight gain. Monteleone P, et al. J Clin Psychopharmacol, 2010 Aug. PMID 20631561. Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-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. Polymorphisms in the endocannabinoid receptor 1 in relation to fat mass distribution. Frost M, et al. Eur J Endocrinol, 2010 Sep. PMID 20587580. Cannabinoid Receptor 1 Gene Polymorphism and Irritable Bowel Syndrome in the Korean Population: A Hypothesis-generating Study. Park JM, et al. J Clin Gastroenterol, 2010 May 25. PMID 20505532. Association study of 182 candidate genes in anorexia nervosa. Pinheiro AP, et al. Am J Med Genet B Neuropsychiatr Genet, 2010 Jul. PMID 20468064.

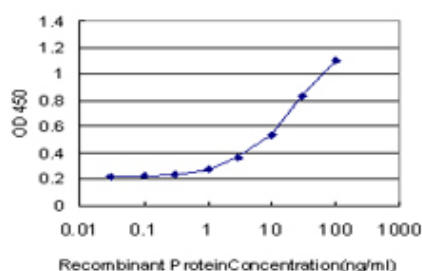
## Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 kDa) .



CNR1 monoclonal antibody (M01), clone 2F9. Western Blot analysis of CNR1 expression in rat testis.



Detection limit for recombinant GST tagged CNR1 is approximately 0.1 ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.