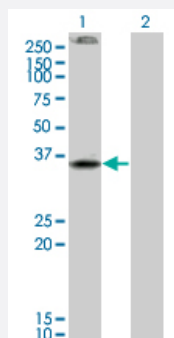


CNR2 monoclonal antibody (M01), clone 3C7

Catalog # H00001269-M01

Size 100 ug

Applications

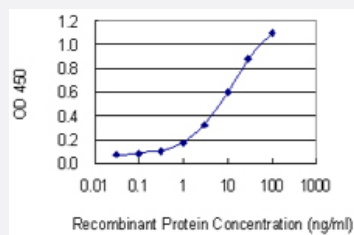


Western Blot (Transfected lysate)

Western Blot analysis of CNR2 expression in transfected 293T cell line by CNR2 monoclonal antibody (M01), clone 3C7.

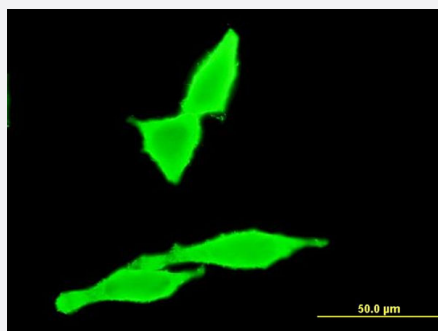
Lane 1: CNR2 transfected lysate(39.7 KDa).

Lane 2: Non-transfected lysate.



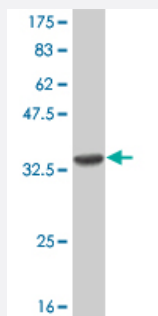
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CNR2 is 0.1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to CNR2 on HeLa cell . [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (32.12 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant CNR2.
Immunogen	CNR2 (NP_001832.1, 302 a.a. ~ 360 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	RSGEIRSSAHHCLAHWKKCVRLGSEAKEEAPRSSVTETEDGKITPWPDSRDLSDLSDC
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (74); Rat (66)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.12 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of CNR2 expression in transfected 293T cell line by CNR2 monoclonal antibody (M01), clone 3C7.

Lane 1: CNR2 transfected lysate(39.7 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged CNR2 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to CNR2 on HeLa cell . [antibody concentration 10 ug/ml]

Gene Info — CNR2

Entrez GeneID [1269](#)

GeneBank Accession# [NM_001841.1](#)

Protein Accession# [NP_001832.1](#)

Gene Name CNR2

Gene Alias CB2, CX5

Gene Description cannabinoid receptor 2 (macrophage)

Omim ID [605051](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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]

Other Designations OTTHUMP00000015772|OTTHUMP00000044841

Publication Reference

- [Cannabinoid receptor 2 expression in early-stage non-small cell lung cancers identifies patients with good prognosis and longer survival.](#)

Monika Vidlarova, Emil Berta, Petr Prasil, Andrea Prokopova, Sona Gurska, Marta Khoylou, Alona Rehulkova, Pavla Kourilova, Josef Chudacek, Marek Szkorupa, Jiri Klein, Jozef Skarda, Josef Srovnal, Marian Hajduch.

Translational Lung Cancer Research 2022 Oct; 11(10):2040.

Application: IHC, Human, Non-small cell lung cancer tissue

- [Ontogeny and programming of the fetal temporal cortical endocannabinoid system by moderate maternal nutrient reduction in baboons \(Papio spp.\).](#)

Gandhi K, Montoya-Urbe V, Martinez S, David S, Jain B, Shim G, Li C, Jenkins S, Nathanielsz P, Schlabritz-Loutsevitch N.

Physiological Reports 2019 Mar; 7(6):e14024.

Application: WB, Baboons, Fetuses

- [Endocannabinoid crosstalk between placenta and maternal fat in a baboon model \(Papio spp.\) of obesity.](#)

Brocato B, Zoerner AA, Janjetovic Z, Skobowiat C, Gupta S, Moore li BM, Slominski A, Zhang J, Schenone M, Phinehas R, Ferry RJ Jr, Dick E Jr, Hubbard GB, Mari G, Schlabritz-Loutsevitch N.

Placenta 2013 Nov; 34(11):983.

Application: IHC-P, WB-Ti, Baboon, Placenta

Pathway

- [Neuroactive ligand-receptor interaction](#)

Disease

- [Anorexia Nervosa](#)
- [Attention Deficit Disorder with Hyperactivity](#)
- [Autistic Disorder](#)
- [Bulimia](#)
- [Cardiovascular Diseases](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)

- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Liver Cirrhosis](#)
- [Myocardial Infarction](#)
- [NARP](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Schizophrenia](#)
- [Startle Reaction](#)
- [Substance-Related Disorders](#)