

**CNR2 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant CNR2.****Catalog # AT1575a****Specification**

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**CNR2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">P34972</a>
Other Accession	<a href="#">NM_001841.1</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	39681

**CNR2 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 1269**Other Names**

Cannabinoid receptor 2, CB-2, CB2, hCB2, CX5, CNR2, CB2A, CB2B

**Target/Specificity**

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.

**Dilution**

WB~~1:500~1000

IF~~1:50~200

E~~N/A

**Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

**Precautions**

CNR2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

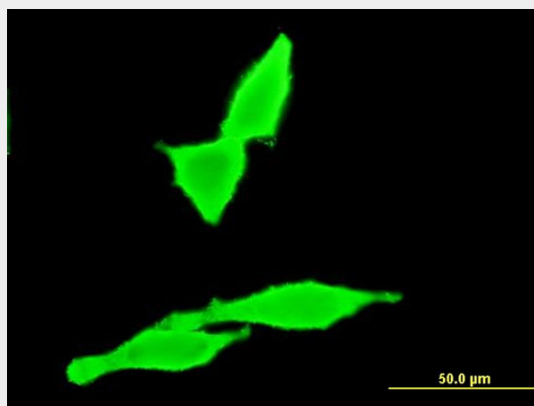
**CNR2 Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

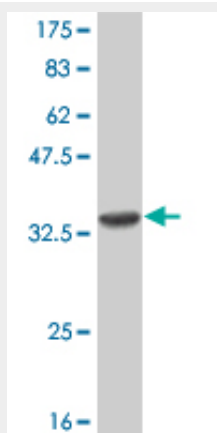
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

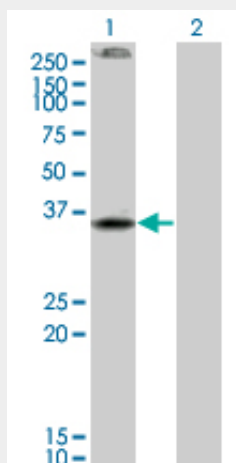
## CNR2 Antibody (monoclonal) (M01) - Images



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



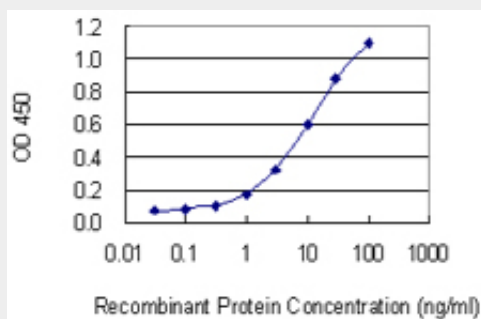
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.12 KDa) .



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.



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

### **CNR2 Antibody (monoclonal) (M01) - 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.

### **CNR2 Antibody (monoclonal) (M01) - References**

1.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 NPlacenta. 2013 Sep 2. pii: S0143-4004(13)00692-9. doi: 10.1016/j.placenta.2013.08.007.