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Cannabinoid receptor CB1-R

Cat.No. 258 011; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 μg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 μl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not tested yet IP: not tested yet ICC: 1 : 500 IHC: 1 : 500 IHC-P/FFPE: 1 : 500
Clone	289C1
Subtype	IgG2b (κ light chain)
Immunogen	Synthetic peptide corresponding to AA 450 to 473 from rat CB1-R (UniProt Id: P20272)
Reactivity	Reacts with: rat (P20272), mouse (P47746), human (P21554). Other species not tested yet.
Specificity	Specific for CB1-R. (K.O. verified)

TO BE USED IN VITRO / FOR RESEARCH ONLY NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

The **cannabinoid receptor CB1-R** is a G-protein coupled receptor (GPCR) with 7 transmembrane domains. It is responsive to tetrahydrocannabinol, the psychotropic component of marijuana. Endogenous cannabinoids (endocannabinoids) are released from postsynaptic neurons and act onto presynaptic cannabinoid receptors where they play important physiological roles in synaptic plasticity, analgesia, appetite, and neuroprotection.

Selected References SYSY Antibodies

The cannabinoid-1 receptor is abundantly expressed in striatal striosomes and striosome-dendron bouquets of the substantia nigra.

Davis MI, Crittenden JR, Feng AY, Kupferschmidt DA, Naydenov A, Stella N, Graybiel AM, Lovinger DM PloS one (2018) 13(2): e0191436. **IHC; tested species: mouse**

Selected General References

Dynamic imaging of cannabinoid receptor 1 vesicular trafficking in cultured astrocytes. Osborne KD, Lee W, Malarkey EB, Irving AJ, Parpura V ASN neuro (2009) 1(5): .

CB1 cannabinoid receptor activity is modulated by the cannabinoid receptor interacting protein CRIP 1a. Niehaus JL, Liu Y, Wallis KT, Egertová M, Bhartur SG, Mukhopadhyay S, Shi S, He H, Selley DE, Howlett AC, Elphick MR, et al. Molecular pharmacology (2007) 72(6): 1557-66.

The CB1 cannabinoid receptor is the major cannabinoid receptor at excitatory presynaptic sites in the hippocampus and cerebellum.

Kawamura Y, Fukaya M, Maejima T, Yoshida T, Miura E, Watanabe M, Ohno-Shosaku T, Kano M The Journal of neuroscience : the official journal of the Society for Neuroscience (2006) 26(11): 2991-3001.

An amino-terminal variant of the central cannabinoid receptor resulting from alternative splicing. Shire D, Carillon C, Kaghad M, Calandra B, Rinaldi-Carmona M, Le Fur G, Caput D, Ferrara P The Journal of biological chemistry (1995) 270(8): 3726-31.

Structure of a cannabinoid receptor and functional expression of the cloned cDNA. Matsuda LA, Lolait SJ, Brownstein MJ, Young AC, Bonner TI Nature (1990) 346(6284): 561-4.

Cannabinoid inhibition of adenylate cyclase. Biochemistry of the response in neuroblastoma cell membranes. Howlett AC

Molecular pharmacology (1985) 27(4): 429-36.