ANTI-CANNABINOID CB1 RECEPTOR
Developed in Rabbit, Affinity Isolated Antibody

Product Number C 8985
Storage Temperature −70 ºC

Product Description
Anti-Cannabinoid CB1 Receptor was developed in rabbit using a synthetic peptide derived from the N-terminal region of the human CB1 cannabinoid receptor. The antiserum is affinity purified using epitope-specific affinity chromatography. Anti-Cannabinoid CB1 Receptor recognizes the N-terminal region of the human central nervous system cannabinoid receptor. On Western blots of rat brain extracts run under non-reducing conditions, this antibody recognizes a high molecular weight band (123 kDa) and several lower molecular weight bands. Under reducing conditions the major immunoreactive protein is detected at 64 kDa.

Anti-Cannabinoid CB1 Receptor recognizes human, rat and mouse CB1 receptors. It has been used in immunoblotting and immunohistochemistry applications.

Two cannabinoid receptors, CB1 and CB2, are present in mammalian tissues. The CB1 receptor is primarily localized to the brain, with the highest levels expressed in basal ganglia, cerebellum, hippocampus and cerebral cortex. The CB2 receptor is primarily localized to the immune system. CB1 is a G-protein coupled receptor that modulates both calcium and potassium channels.1,2 Anandamide (arachidonylethanolamide) and 2-arachidonoylglycerol are thought to be the endogenous ligands for the cannabinoid receptors. However, they are also activated by Δ⁹-tetrahydrocannabinol, the psychoactive principle of marijuana.

Reagent
Anti-Cannabinoid CB1 Receptor is supplied as a solution of rabbit IgG in phosphate buffered saline, pH 7.2, containing 0.1% sodium azide as a preservative. Each vial contains 100 µg antibody in 0.2 mL.

Precautions and Disclaimer
Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

Storage/Stability
Anti-Cannabinoid CB1 Receptor is shipped on dry ice. Store at −70 ºC. Upon initial thawing, freeze the solution in working aliquots for extended storage. Avoid repeated freezing and thawing to prevent denaturing the antibody. The antibody is stable for at least six months when stored appropriately. Working dilutions should be discarded if not used within 12 hr.

Product Profile
A working concentration of 1.0 µg/ml was used for immunoblots of rat brain extracts. The data demonstrate that only a peptide corresponding to the N-terminal region of CB1 blocks the binding of this antibody. For immunohistochemistry a working concentration of 40 µg/ml has been used.

Note: In order to obtain the best results using different techniques and preparations we recommend determining the optimal working concentration by titration.

Reference