

Basic Information

Product Name	Anti-Cannabinoid receptor 1/CNR1 Antibody	
Gene Name	CNR1	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.	
Immunogen	Polypeptide	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	53-60 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer, pH6.0, or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

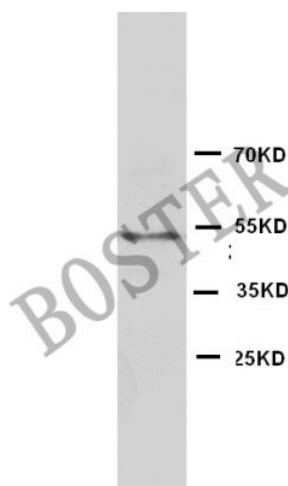
Storage

12 months from date of receipt, -20°C as supplied.

Background Information

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.

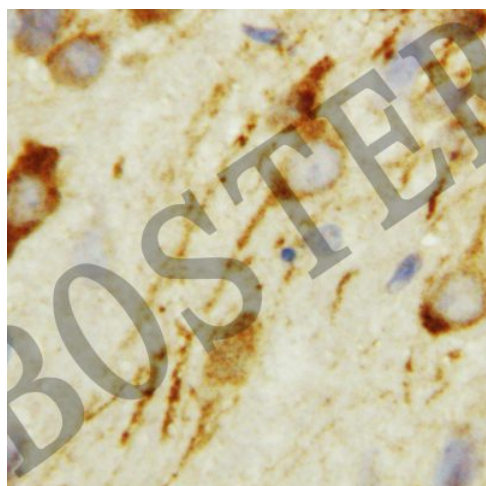
Selected Validation Data



Western blot analysis of Cannabinoid receptor 1/CNR1 using anti-Cannabinoid receptor 1/CNR1 antibody (BA2144). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cannabinoid receptor 1/CNR1 antigen affinity purified polyclonal antibody (BA2144) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cannabinoid receptor 1/CNR1 at approximately 53-60 kDa. The expected band size for Cannabinoid receptor 1/CNR1 is at 53 kDa.



IHC analysis of Cannabinoid receptor 1/CNR1 using anti-Cannabinoid receptor 1/CNR1 antibody (BA2144).

Cannabinoid receptor 1/CNR1 was detected in a paraffin-embedded section of rat brain tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Cannabinoid receptor 1/CNR1 Antibody (BA2144) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.