

Datasheet for ABIN5692834  
**anti-CNR1 antibody (AA 1-75)**



[Go to Product page](#)

**3** Images

## Overview

Quantity:	100 µg
Target:	CNR1
Binding Specificity:	AA 1-75
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CNR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC)

## Product Details

Purpose:	Anti-Cannabinoid Receptor I/CNR1 Antibody Picoband®
Immunogen:	E. coli-derived human Cannabinoid Receptor I recombinant protein (Position: M1-Q75).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Cannabinoid Receptor I/CNR1 Antibody Picoband® (ABIN5692834). Tested in ELISA, Flow Cytometry, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

## Target Details

Target:	CNR1
Alternative Name:	CNR1 ( <a href="#">CNR1 Products</a> )
Background:	<p>Synonyms: Cannabinoid receptor 1, CB-R, CB1, CANN6, CNR1, CNR</p> <p>Tissue Specificity: Widely expressed, with highest levels in fetal and adult brain. Expression levels of isoform 2 and isoform 3 are much lower than those of isoform 1.</p> <p>Background: The cannabinoid receptor type 1, often abbreviated as CB1, is a G protein-coupled cannabinoid receptor located primarily in the central and peripheral nervous system. 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.</p>
Molecular Weight:	60 kDa
Gene ID:	1268
UniProt:	<a href="#">P21554</a>
Pathways:	<a href="#">Feeding Behaviour</a>

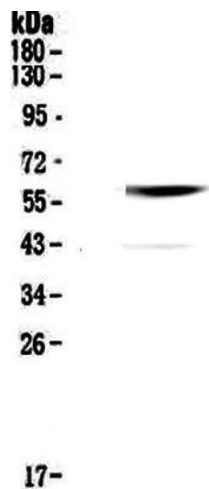
## Application Details

Application Notes:	<p>Western blot, 0.1-0.5 µg/mL</p> <p>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL</p> <p>Immunohistochemistry (Frozen Section), 0.5-1 µg/mL</p> <p>Immunocytochemistry, 0.5-1 µg/mL</p> <p>Flow Cytometry (Fixed), 1-3 µg/1×10<sup>6</sup> cells</p> <p>ELISA, 0.1-0.5 µg/mL</p> <p>1. "Entrez Gene: CNR1 cannabinoid receptor 1 (brain)". 2. Russo, P., Strazzullo, P., Cappuccio, F. P., Tregouet, D. A., Lauria, F., Loguercio, M., Barba, G., Versiero, M., Siani, A. Genetic variations at the endocannabinoid type 1 receptor gene (CNR1) are associated with obesity phenotypes in men. J. Clin. Endocr. Metab. 92: 2382-2386, 2007.</p>
Restrictions:	For Research Use only

Handling

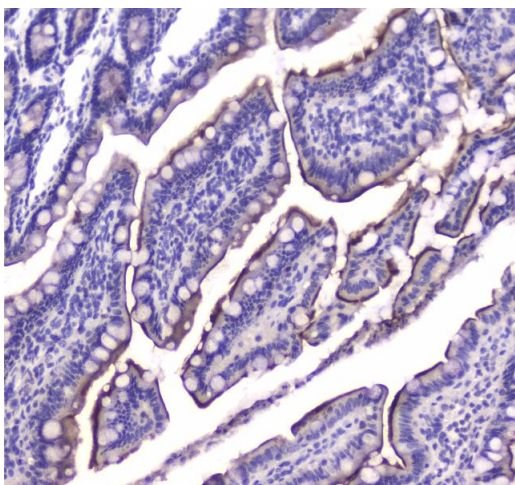
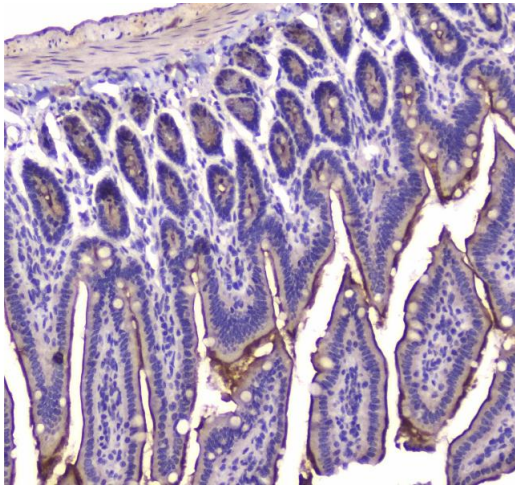
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg NaN <sub>3</sub> .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

**Image 1.** Western blot analysis of Cannabinoid Receptor I using anti-Cannabinoid Receptor I antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: human 22RV1 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Cannabinoid Receptor I antigen affinity purified polyclonal antibody (Catalog # ) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Cannabinoid



Receptor I at approximately 60KD. The expected band size for Cannabinoid Receptor I is at 53KD.

#### Immunohistochemistry

**Image 2.** IHC analysis of Cannabinoid Receptor I using anti-Cannabinoid Receptor I antibody . Cannabinoid Receptor I was detected in paraffin-embedded section of mouse small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-Cannabinoid Receptor I Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

#### Immunohistochemistry

**Image 3.** IHC analysis of Cannabinoid Receptor I using anti-Cannabinoid Receptor I antibody . Cannabinoid Receptor I was detected in paraffin-embedded section of rat small intestine tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/ml rabbit anti-Cannabinoid Receptor I Antibody overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.