Rabbit Cannabinoid receptor 1/CNR1 Polyclonal Antibody | anti-CNR1 antibody

Anti-Cannabinoid receptor 1/CNR1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127049	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Flow Cytometry, Functional Assay, Western Blot**

PRODUCT SYNONYMS

Cannabinoid receptor 1/CNR1; Polyclonal Antibody; Anti-Cannabinoid receptor 1/CNR1 Antibody Picoband; anti-CNR1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-CNR1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human Cannabinoid receptor 1/CNR1 recombinant protein (Position: D27-D466). Human CNR1 shares 96.8% and 97.1% amino acid (aa) sequence identity with mouse and rat CNR1, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES

FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of U251 cells using anti-Cannabinoid Receptor 1/CNR1 antibody (AAA127049).Overlay histogram showing U251 cells stained with AAA127049 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cannabinoid Receptor 1/CNR1 Antibody (AAA127049, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

WB (Western Blot)
Figure 1. Western blot analysis of Cannabinoid Receptor 1/CNR1 using anti-Cannabinoid Receptor 1/CNR1 antibody (AAA127049).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 30 ug of sample under reducing conditions.Lane 1: human U251 whole cell lysates,Lane 2: rat brain tissue lysates,Lane 3: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA 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 1/CNR1 antigen affinity purified polyclonal antibody (#AAA127049) at 0.5ug/mL overnight at 4 degree 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 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Cannabinoid Receptor 1/CNR1 at approximately 53 kDa. The expected band size for Cannabinoid Receptor 1/CNR1 is at 53 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-CNR1 antibody	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.
Product Categories/Family for anti-CNR1 antibody	Primary Antibodies
References	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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	237681067
NCBI GeneID	1268
NCBI Accession #	NP_001153698.1
NCBI GenBank Nucleotide #	NM_001160226.1
UniProt Accession #	P21554; Q13949; Q495Z0; Q4PLI4; Q4VBM6; Q5JVL5; Q5UB37; Q9UNN0; B2R9T4; E1P512
Molecular Weight	52,858 Da
NCBI Official Full Name	cannabinoid receptor 1 isoform a
NCBI Official Synonym Full Names	cannabinoid receptor 1 (brain)
NCBI Official Symbol	CNR1
NCBI Official Synonym Symbols	CB1; CNR; CB-R; CB1A; CB1R; CANN6; CB1K5
NCBI Protein Information	cannabinoid receptor 1; central cannabinoid receptor
UniProt Protein Name	Cannabinoid receptor 1
UniProt Gene Name	**CNR1**
UniProt Synonym Gene Names	CNR; CB-R; CB1
UniProt Entry Name	CNR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/cannabinoid-receptor-1-cnr1-antibody-flow-cytometry-western-blot-elisa/127049