

Rabbit anti-Human CB2 Polyclonal Antibody | anti-CNR2 antibody

CB2 Antibody (C-term)

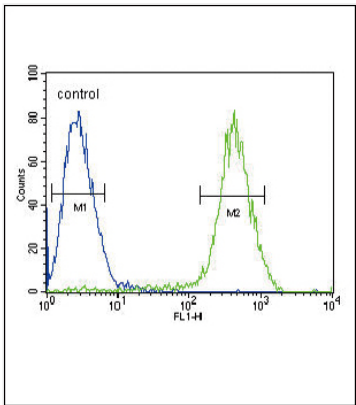
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28672	Rabbit	Human	ELISA, Immunohistochemistry, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

CB2; Polyclonal Antibody; CB2 Antibody (C-term); Cannabinoid receptor 2; CB-2; hCB2; CX5; CNR2; CB2A; CB2B; anti-CNR2 antibody

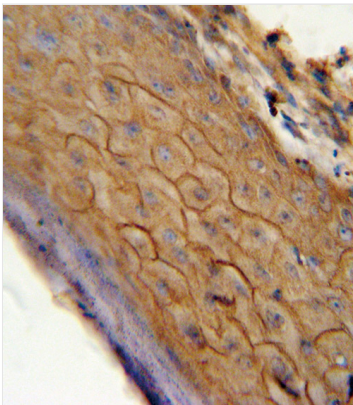
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	This CB2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 329-356 amino acids from the C-terminal region of human CB2.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	329-356
Sequence Length	360
Applicable Applications for anti-CNR2 antibody	ELISA, IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), WB (Western Blot)
Application Notes	IHC-P~~1:10~50 FC~~1:25 WB~~1:1000
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell projection, dendrite. Perikaryon Note=Localizes to apical dendrite of pyramidal neurons.
Tissue Location	Preferentially expressed in cells of the immune system with higher expression in B-cells and NK cells (at protein level). Expressed in skin in suprabasal layers and hair follicles (at protein level). Highly expressed in tonsil and to a lower extent in spleen, peripheral blood mononuclear cells, and thymus. PubMed:14657172 could not detect expression in normal brain. Expressed in brain by perivascular microglial cells and dorsal root ganglion sensory neurons (at protein level). Two isoforms are produced by alternative promoter usage and differ only in the 5'UTR: isoform CB2A is observed predominantly in testis with some expression in brain, while isoform CB2B is predominant in spleen and leukocytes
Function	Heterotrimeric G protein-coupled receptor for endocannabinoid 2-arachidonoylglycerol mediating inhibition of adenylate cyclase. May function in inflammatory response, nociceptive transmission and bone homeostasis.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



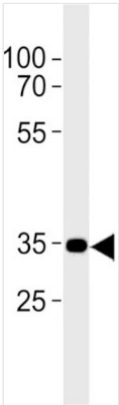
FCM (Flow Cytometry)

CB2 Antibody (C-term) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



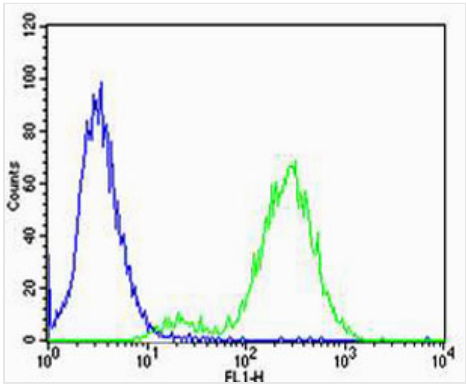
IHC (Immunohistochemistry)

CB2 antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the CB2 antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



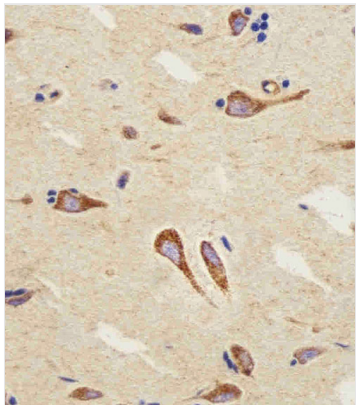
WB (Western Blot)

CB2 Antibody (C-term) western blot analysis in A431 cell line lysates (35ug/lane). This demonstrates the CB2 antibody detected the CB2 protein (arrow).



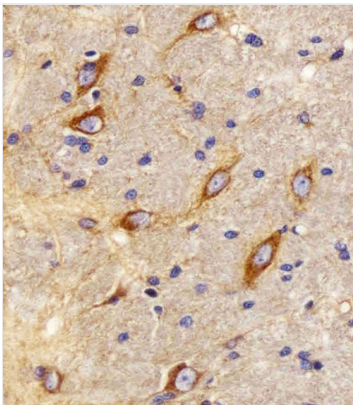
FCM (Flow Cytometry)

Flow cytometric analysis of Jurkat cells using Park7 (DJ-1) Antibody (green) compared to an isotype control of rabbit IgG (blue). AAA28672 was diluted at 1:25 dilution. An Alexa Fluor 488 goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded H. brain section using CB2 Antibody (C-term). AAA28672 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.



IHC (Immunohistochemistry)

Immunohistochemical analysis of paraffin-embedded R. brain section using CB2 Antibody (C-term). AAA28672 was diluted at 1:25 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

ADDITIONAL INFORMATION

Related Product Information for anti-CNR2 antibody	The cannabinoid delta-9-tetrahydrocannabinol is the principal psychoactive ingredient of marijuana. The proteins encoded by this gene and the cannabinoid receptor 1 (brain) (CNR1) gene have the characteristics of a guanine nucleotide-binding protein (G-protein)-coupled receptor for cannabinoids. They inhibit adenylate cyclase activity in a dose-dependent, stereoselective, and pertussis toxin-sensitive manner. These proteins have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana. The cannabinoid receptors are members of family 1 of the G-protein-coupled receptors.
Product Categories/Family for anti-CNR2 antibody	Crown Antibodies ; Neuroscience ; Loading Control
References	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Larrinaga, G., et al. Histol. Histopathol. 25(9):1133-1138(2010) Pinheiro, A.P., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 153B (5), 1070-1080 (2010) : Taylor, A.H., et al. Histochem. Cell Biol. 133(5):557-565(2010) De Jesus, M.L., et al. Neurochem. Int. 56 (6-7), 829-833 (2010) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502929
NCBI GeneID	1269
NCBI Accession #	NP_001832.1
NCBI GenBank Nucleotide #	NM_001841.2
UniProt Accession #	P34972 ; Q4VBK8 ; Q5JRH7 ; Q6B0G7 ; Q6NSY0 ; C6ES44
NCBI Official Full Name	cannabinoid receptor 2
NCBI Official Synonym Full Names	cannabinoid receptor 2 (macrophage)
NCBI Official Symbol	CNR2
NCBI Official Synonym Symbols	CB2; CX5; CB-2
NCBI Protein Information	cannabinoid receptor 2
UniProt Protein Name	Cannabinoid receptor 2
UniProt Gene Name	CNR2
UniProt Synonym Gene Names	CB2A; CB2B; CB-2; CB2; hCB2
UniProt Entry Name	CNR2_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/cb2-antibody-immunohistochemistry-flow-cytometry-western-blot-elisa/28672>