Datasheet for ABIN7043025

anti-CNR2 antibody (AA 228-242)

2 Images

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Overview

Quantity:	25 µL
Target:	CNR2
Binding Specificity:	AA 228-242
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CNR2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	A Rabbit Polyclonal Antibody to Cannabinoid Receptor 2
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)DRQVPGIARMRLDVR, corresponding to amino acid residues 228-242 of rat CB2 receptor
Isotype:	IgG
Specificity:	3rd intracellular loop
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Mouse - identical Human - 14 out of 15 amino acid residues identical
Characteristics:	Anti-Cannabinoid Receptor 2 Antibody (ABIN7043025, ABIN7044157 and ABIN7044158) is directed against an intracellular epitope of the rat CB2 receptor. Anti-Cannabinoid Receptor 2

Product Details

	Antibody (ABIN7043025, ABIN7044157 and ABIN7044158) can be used in western blot and immunohistochemistry applications, and recognizes CB2 in rat samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

Target:	CNR2
Alternative Name:	CNR2 (CNR2 Products)
Background:	CB2, CNR2,Cannabinoids have been used as pain relievers in Eastern medicine for many years.1 To date, two specific cannabinoid receptors have been identified: cannabinoid receptor 1 (CB1) and cannabinoid receptor 2 (CB2).2 The cannabinoid receptors can be distinguished by their amino acid sequence, signaling mechanisms and tissue distribution.2 Both receptors belong to the G-protein coupled receptor superfamily and are coupled to Gi/0 G protein.2,3The CB2 receptor is highly expressed in cells of the immune system such as macrophages, lymphocytes natural killer cells and mast cells but has also been shown to be expressed, by both, in situ-hybridization and in immunohistochemistry, in spleen, thymus, and pancreas.1,2,4 CB2 expression in the brain is still much less characterized than that of CB1. Recently, it was demonstrated that CB2 is expressed in the brain and might have a role in controlling fundamental processes such as proliferation and survival of neural cells.5,6Overexpression of CB2 was reported in several cancers such as prostate, glioma and acute myeloid leukemias.6 In human astrocytoma a direct relationship between CB2 expression and tumor malignancy was demonstrated. Activation of CB2 in vivo by its agonist JWH-133, completely blocked cell growth. In C6 glioma, it was shown that activation of the CB2 by JWH-133 resulted in the internalization of only the CB2 and not CB1 leading to apoptosis of the cells. This may well be a new approach for the treatment of glioma.7 Alternative names: Cannabinoid Receptor 2, CB2, CNR2
Gene ID:	57302
NCBI Accession:	NM_001841
UniProt:	Q9QZN9

Application Details

Application Notes:	Antigen preadsorption control: 1 µg peptide per 1 µg antibody Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:100-1:400

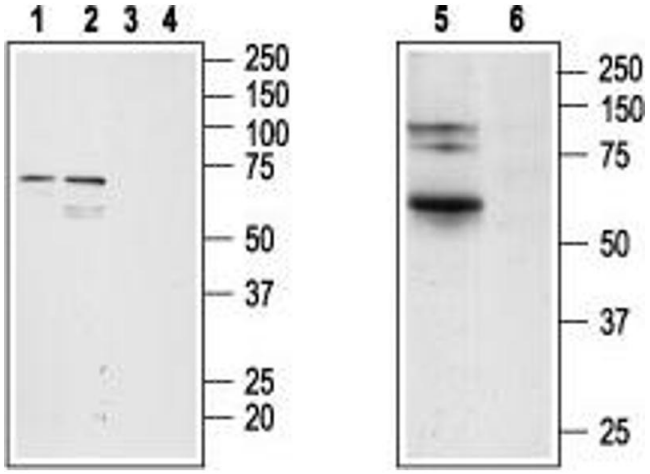
Application Details

	Application Dilutions Western blot wb: 1:200
Comment:	Cited Application: IHC Negative Control: (ABIN7235032) Blocking Peptide: (ABIN7235032)
Restrictions:	For Research Use only

Handling

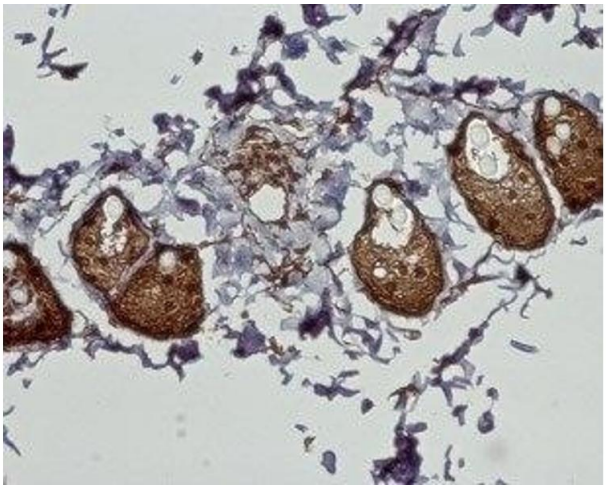
Format:	Lyophilized
Reconstitution:	0.2 mL double distilled water (DDW).
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



Western Blotting

Image 1. Western blot analysis of RBL (lanes 1 and 3), C6 (lanes 2 and 4) and rat lung (lanes 5 and 6) lysates: -1,2,5. Anti-Cannabinoid Receptor 2 Antibody (ABIN7043025, ABIN7044157 and ABIN7044158), (1:200).3,4,6. Anti-Cannabinoid Receptor 2 Antibody, preincubated with Cannabinoid Receptor 2 Blocking Peptide (#BLP-CR002).



Immunohistochemistry

Image 2. Expression of CB2 receptor in rat dermis - Immunohistochemical staining of paraffin embedded section of rat dermis using Anti-Cannabinoid Receptor 2 Antibody (ABIN7043025, ABIN7044157 and ABIN7044158), (1:100). CB2 is expressed in sebaceous glands and ducts of sweat glands in the reticular dermis. Hematoxilin is used as the counterstain.