bs-2377R **[Primary Antibody]**

CNR2 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1269 **SWISS:** P34972

Target: CNR2

Immunogen: KLH conjugated synthetic peptide derived from human CNR2: 251-350/360.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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. [provided by RefSeq, Jul 2008].

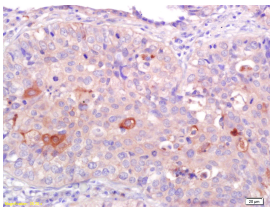
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse (predicted: Rat)

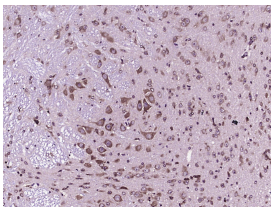
Predicted MW.: 40 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CNR2/CB2 Polyclonal Antibody, Unconjugated(bs-2377R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CNR2) Polyclonal Antibody, Unconjugated (bs-2377R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

SELECTED CITATIONS

- **[IF=5.94]** Braun, Molly, et al. "Selective activation of cannabinoid receptor-2 reduces neuroinflammation after traumatic brain injury via alternative macrophage polarization." Brain, Behavior, and Immunity (2017). IHC ;="Mouse". 29079445
- **[IF=6.208]** Uliana De Simone. et al. Human Astrocyte Spheroids as Suitable In Vitro Screening Model to Evaluate Synthetic Cannabinoid MAM2201-Induced Effects on CNS. INT J MOL SCI. 2023 Jan;24(2):1421 IF,FCM ;Human.

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- **[IF=5.8]** Kai Zhang. et al. The bio-functionalized membrane loaded with Ta/WH nanoparticles promote bone regeneration through neurovascular coupling. COLLOID SURFACE B. 2023 Oct;230:113506 Other ;. 37572400
- **[IF=4.3]** Chen Jiayao. et al. Mechanisms of weight-loss effect in obese mice by the endogenous cannabinoid receptor 2 agonist beta-caryophyllene. OBES RES CLIN PRACT. 2023 Nov;: IHC ;Mouse. 37919194
- **[IF=4.4]** Chengyu Huang. et al.The protective role of cannabidiol in stress-induced liver injury: modulating oxidative stress and mitochondrial damage..Frontiers in Pharmacology.2025 Mar 14:16:1567210. Western blot ;Mouse. 40160456