SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CNR2 antibody

Catalog Number: SL2377R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse(predicted:Rat)
Predicted MW.:	40kDa
Subcellular Location:	The cell membrane
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]. **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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Cell membrane. Cell projection, dendrite. Perikaryon. Localizes to apical dendrite of pyramidal neurons. **Tissue Specificity:** 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 glanglion sensory neurons (at protein level). **Post-translational modifications:** Constitutively phosphorylated on Ser-352; phosphorylation increases cell internalization and desensitizes the receptor. **Similarity:** Belongs to the G-protein coupled receptor 1 family. **Database links:** **Entrez Gene:** 1269 Human **Entrez Gene:** 12802 Mouse **Entrez Gene:** 57302 Rat Omim: 605051 Human **SwissProt:** P34972 Human **SwissProt:** P47936 Mouse **SwissProt:** Q9QZN9 Rat **Unigene:** 73037 Human **Unigene:** 297251 Mouse **Unigene:** 48776 Rat Cannabinoid receptor 2 (cannabinoid type II receptor) CB2 receptor is mainly distributed in epithelial cells, macrophages, mast cells, sensory nerve fibers, hair follicles, sweat glands and other sites in normal skin, and participates in important physiological and pathological processes such as skin sensory conduction, pain mechanisms, skin immunity, skin Tumour, and Cell differentiation.

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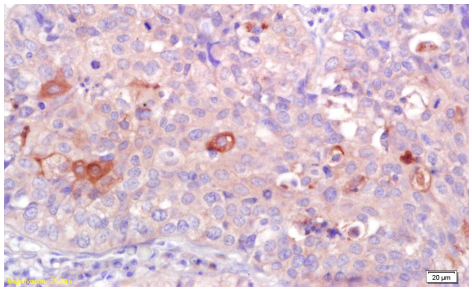
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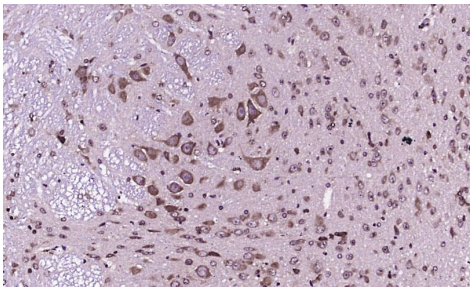
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[VALIDATION IMAGES]



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, 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℃ for 20 min;
Incubation: Anti-CNR2/CB2 Polyclonal Antibody, Unconjugated(SL2377R) 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 (SL2377R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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