Cannabinoid receptor 1
Polyclonal ANTIBODY

Catalog Number: 17978-1-AP

Basic Information

- **Catalog Number:** 17978-1-AP
- **Size:** 44 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **GenBank Accession Number:** BC074812
- **GeneID (NCBI):** 1268
- **Full Name:** cannabinoid receptor 1 (brain)
- **Calculated MW:** 472aa, 53 kDa
- **Observed MW:** 53 kDa

Recommended Dilutions:
- WB: 1:500-1:2000
- IHC: 1:50-1:500

Applications

- **Tested Applications:** FC, IHC, WB, ELISA
- **Cited Applications:** IF, IHC, WB
- **Speciﬁcity:** human, mouse, rat
- **Species Specificity:** human, mouse, rat

Positive Controls:
- WB: mouse brain tissue, mouse testis tissue, SH-SY5Y cells
- IHC: mouse brain tissue

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Cannabinoid receptor 1 (CNR1, or CB1) and CNR2 (CB2) are members of the guanine-nucleotide-binding protein (G-protein) coupled receptor family. The CB1 receptor is expressed mainly in the brain. The CB2 receptor is expressed mainly in the immune system and in hematopoietic cells. The two receptors have been found to be involved in the cannabinoid-induced CNS effects (including alterations in mood and cognition) experienced by users of marijuana.

Notable Publications

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<th>Author</th>
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<th>Journal</th>
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<tr>
<td>Tingting Guo</td>
<td>31034002</td>
<td>Neurosci Lett</td>
<td>IHC</td>
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<td>Kaminitz Ayelet A</td>
<td>24219803</td>
<td>World J Biol Psychiatry</td>
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<tr>
<td>Shuting Xia</td>
<td>27266803</td>
<td>Elife</td>
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Storage

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** is unnecessary for -20°C storage.
mouse brain tissue were subjected to SDS PAGE followed by western blot with 17978-1-AP Cannabinoid receptor 1 antibody at dilution of 1:1000 incubated at 4 degree celsius over night.

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17978-1-AP Cannabinoid receptor 1 antibody at dilution of 1:100 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH6).

Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17978-1-AP Cannabinoid receptor 1 antibody at dilution of 1:100 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH6).

1000s SH-SY5Y cells were stained with 0.2ug Cannabinoid receptor 1 antibody (17978-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.