

Product datasheet

Anti-Cannabinoid Receptor II antibody ab3560

★★★★★ 3 Abreviews 3 References

Overview

Product name	Anti-Cannabinoid Receptor II antibody
Description	Rabbit polyclonal to Cannabinoid Receptor II
Host species	Rabbit
Immunogen	Recombinant fragment within Human Cannabinoid Receptor II aa 1-100 (N terminal). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.

General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>
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Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.1% BSA, 49% PBS
Purity	Immunogen affinity purified
Primary antibody notes	Cannabinoids exert their well known physiological effects through two G protein coupled receptors, cannabinoid receptor 1 (CB1) and CB2. Both cannabinoid receptors have been shown to inhibit adenylyl cyclase as well as stimulate the mitogen-activated protein kinase, MAPK. CB1 receptors also modulate ion channels through direct G-protein interactions. Delta 9-tetrahydrocannabinol and related ligands likely exert their psychoactive effects by inhibiting presynaptic N- and P / Q type calcium channels. CB2 is thought to function primarily in the immune system although it has been suggested to be present in the central nervous system, including the retina.
Clonality	Polyclonal

Isotype

IgG

Target

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.

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 ganglion sensory neurons (at protein level).

Sequence similarities

Belongs to the G-protein coupled receptor 1 family.

Post-translational modifications

Constitutively phosphorylated on Ser-352; phosphorylation increases cell internalization and desensitizes the receptor.

Cellular localization

Cell membrane. Cell projection > dendrite. Perikaryon. Localizes to apical dendrite of pyramidal neurons.

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