Product datasheet

Anti-Sigma1-receptor antibody - C-terminal ab53852

Overview

Product name
Rabbit polyclonal to Sigma1-receptor - C-terminal

Host species
Rabbit

Tested applications
Suitable for: WB, IHC-Fr, IHC-FrFl, ICC/IF

Species reactivity
Reacts with: Mouse, Rat

Predicted to work with: Cow, Dog, Human, Mink

Immunogen
Synthetic peptide corresponding to Rat Sigma1-receptor (C terminal).

Database link: Q99720

Positive control
WB: Mouse brain, rat liver and rat brain homogenates. IHC-Free Floating: Mouse lumbar spinal cord tissue.

Properties

Form
Liquid

Storage instructions

Storage buffer
pH: 7.40
Preservative: 0.1% Sodium azide
Constituent: PBS

Purity
Immunogen affinity purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab53852 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function

Functions in lipid transport from the endoplasmic reticulum and is involved in a wide array of cellular functions probably through regulation of the biogenesis of lipid microdomains at the plasma membrane. Involved in the regulation of different receptors it plays a role in BDNF signaling and EGF signaling. Also regulates ion channels like the potassium channel and could modulate neurotransmitter release. Plays a role in calcium signaling through modulation together with ANK2 of the ITP3R-dependent calcium efflux at the endoplasmic reticulum. Plays a role in several other cell functions including proliferation, survival and death. Originally identified for its ability to bind various psychoactive drugs it is involved in learning processes, memory and mood alteration.

Tissue specificity

Widely expressed with higher expression in liver, colon, prostate, placenta, small intestine, heart and pancreas. Expressed in the retina by retinal pigment epithelial cells.

Involvement in disease

Amyotrophic lateral sclerosis 16, juvenile

Sequence similarities

Belongs to the ERG2 family.

Cellular localization


Images
Western blot - Anti-Sigma1-receptor antibody - C-terminal (ab53852)

All lanes: Anti-Sigma1-receptor antibody - C-terminal (ab53852) at 2 µg/ml

Lane 1: Mouse brain homogenate
Lane 2: Rat liver homogenate
Lane 3: Rat brain homogenate

Predicted band size: 25 kDa
Observed band size: 25 kDa
Additional bands at: 75 kDa. We are unsure as to the identity of these extra bands.

Immunohistochemistry - Free Floating - Anti-Sigma1-receptor antibody - C-terminal (ab53852)

ab53852 staining Sigma1-receptor in mouse lumbar spinal cord tissue (30 micron sections) by Immunohistochemistry (Free-floating sections). Blocking was done by incubating the sections for 1 hour at room temperature in NGS 10% + Triton 0.1% in PBS. The primary antibody was diluted 1/250 in 3% goat serum in PBS and incubated with the sample for 16 hours at 4°C. An Alexa fluor® 647-conjugated Goat anti-Rabbit polyclonal was used as the secondary antibody, diluted 1/500.

Sections were also immunostained with Hoechst dye (blue) to highlight nuclei. The green signal is GFP expressed in motor neuronal cells.

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