Product datasheet

Anti-Mu Opioid Receptor antibody ab10275

Overview

Product name
Anti-Mu Opioid Receptor antibody

Description
Rabbit polyclonal to Mu Opioid Receptor

Host species
Rabbit

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

Species reactivity
Reacts with: Mouse, Rat, Guinea pig, Human

Predicted to work with: Cow, Pig, Non human primates, Macaque monkey

Immunogen
Synthetic peptide: NHQLENLEAETAPLP, corresponding to C terminal amino acids 384-398 of Rat Mu Opioid Receptor 1.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Storage buffer
Preservative: 0.05% Sodium azide
Constituent: Whole serum

Purity
Whole antiserum

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab10275 in the following tested applications.

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

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Function
Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Receptor for beta-endorphin.

Sequence similarities
Belongs to the G-protein coupled receptor 1 family.

Cellular localization
Cell membrane.

Images

Ab10275 (1:2500) staining of Mu opioid receptor by IHC.

ICC/IF image of ab10275 stained SHSY5Y cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab10275, 1 in 200 dilution) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
Immunohistochemical analysis of rat brain tissue, staining Mu Opioid Receptor with ab10275.

Tissue was blocked with 5% normal donkey serum and 0.4% Triton X-100 for 1 hour at room temperature. Sections were incubated with primary antibody (1/2000) for 24 hours at 4°C. An AlexaFluor®594-conjugated donkey anti-rabbit IgG (1/250) was used as the secondary antibody.

Mu Opioid Receptor (ab10275) staining of Rat DRG (dilution: 1:100) incubation at 4 °C overnight. Secondary antibody is anti-Rabbit Rhodamine Red (dilution:1:200) incubation at room temperature for 1 hour.

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