Product datasheet

Anti-Mu Opioid Receptor antibody ab10275

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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**

**Immunohistochemistry (Frozen sections) - Anti-Mu Opioid Receptor antibody (ab10275)**
Ab10275 (1:2500) staining of Mu opioid receptor by IHC.

**Immunocytochemistry/Immunofluorescence - Anti-Mu Opioid Receptor antibody (ab10275)**
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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