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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<tr>
<th>Application</th>
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<td>WB</td>
<td>![Image]</td>
<td>1/500 - 1/1000. Detects a band of approximately 49-65 kDa (predicted molecular weight: 45 kDa). Can be blocked with Rat Mu Opioid Receptor peptide (ab46988). Approximately 49 -65 kDa depending on the tissue lysate. Can be blocked with ab46988.</td>
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<td>IHC-Fr</td>
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<td>ICC</td>
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**Target**

**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.

Immunohistochemistry (Frozen sections) - 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.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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