abcam

Product datasheet

Anti-Delta Opioid Receptor (phospho S363) antibody ab62152

1 References 2 Images

Overview

Product name	Anti-Delta Opioid Receptor (phospho S363) antibody
Description	Rabbit polyclonal to Delta Opioid Receptor (phospho S363)
Specificity	Detects endogenous levels of Delta Opioid Receptor only when phosphorylated at serine 363
Tested applications	**Suitable for:** IHC-P, ELISA, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthetic phosphopeptide derived from human Delta Opioid Receptor around the phosphorylation site of serine 363 (T-P-S^{P}-D-G).
Positive control	Brain

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Purification notes	Purified from rabbit antiserum by affinity chromatography using epitope specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab62152** in the following tested applications.

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

Application	Abreviews	Notes
IHC-P		1/50 - 1/100.
ELISA		1/40000.
ICC/IF		Use a concentration of 10 µg/ml.

Target

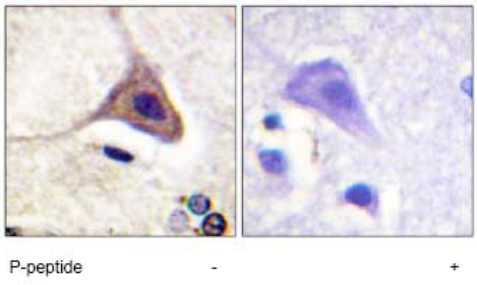
Relevance

Function: G-protein coupled receptor that functions as receptor for endogenous enkephalins and for a subset of other opioids. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of down-stream effectors, such as adenylate cyclase. Signaling leads to the inhibition of adenylate cyclase activity. Inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance. Plays a role in the perception of pain and in opiate-mediated analgesia. Plays a role in developing analgesic tolerance to morphine. Tissue specificity: Detected in oocytes (at protein level). Detected in brain cortex, hypothalamus, hippocampus and olfactory bulb. Detected in oocytes. Similarity: Belongs to the G-protein coupled receptor 1 family. PTM: N-glycosylated. Ubiquitinated. A basal ubiquitination seems not to be related to degradation. Ubiquitination is increased upon formation of OPRM1:OPRD1 oligomers leading to proteasomal degradation; the ubiquitination is diminished by RTP4.

Cellular localization

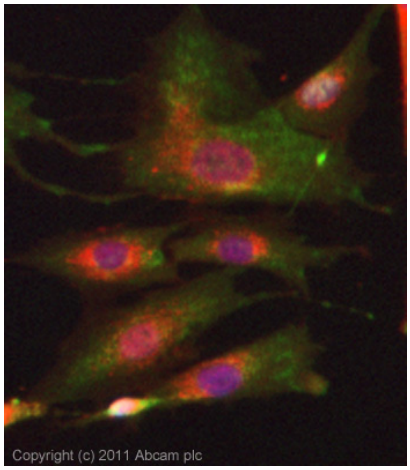
Multi pass membrane protein

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Delta Opioid Receptor (phospho S363) antibody (ab62152)

Immunohistochemistry analysis of paraffin-embedded human brain tissue using Delta Opioid Receptor (phospho S363) antibody (ab62152) at 1/50 - 1/100 dilution, in the presence (right panel) and absence (left panel) of immunising phosphopeptide.



Immunocytochemistry/ Immunofluorescence - Anti-Delta Opioid Receptor (phospho S363) antibody (ab62152)

ICC/IF image of ab62152 stained SKNSH cells. The cells were 4% formaldehyde (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 (ab62152, 10µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 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.

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