


Product datasheet

# Anti-Delta Opioid Receptor (phospho S363) antibody ab62152

1 References 2 Images

Overview

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

Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS, 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	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.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

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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

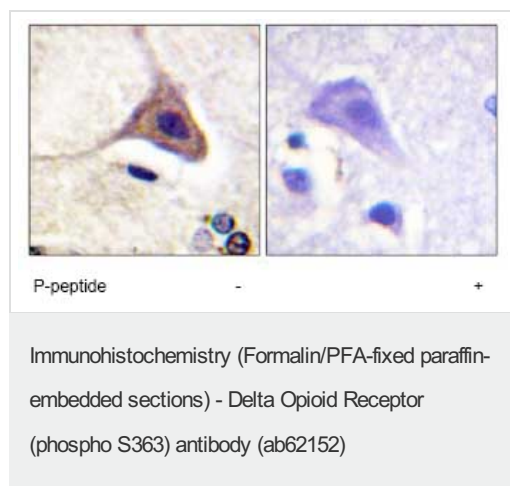
### Relevance

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.

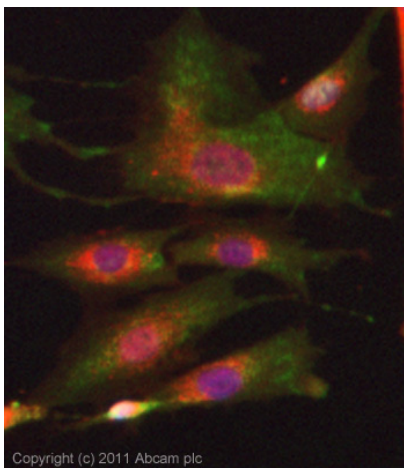
### Cellular localization

Multi pass membrane protein

## Images



Immunohistochemistry 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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