

# Anti-Delta Opioid Receptor antibody [EPR24378-193] - BSA and Azide free ab283722

Recombinant RabMAb

6 Images

### Overview

<b>Product name</b>	Anti-Delta Opioid Receptor antibody [EPR24378-193] - BSA and Azide free
<b>Description</b>	Rabbit monoclonal [EPR24378-193] to Delta Opioid Receptor - BSA and Azide free
<b>Host species</b>	Rabbit
<b>Specificity</b>	Application/Species-unsuitable IHC-P Human
<b>Tested applications</b>	<b>Suitable for:</b> Dot blot, IHC-P <b>Unsuitable for:</b> Flow Cyt, ICC/IF, IHC-Fr, IP or WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	IHC-P: Mouse cerebrum, Rat cerebrum and HEK-293T-transfected with OPRD1 expression vector containing a myc-His-tag®
<b>General notes</b>	<p>ab283722 is the carrier-free version of <a href="#">ab283692</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p>

Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb<sup>®</sup> patents](#).

## Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	pH: 7.20 Constituent: 100% PBS
<b>Carrier free</b>	Yes
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR24378-193
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab283722 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

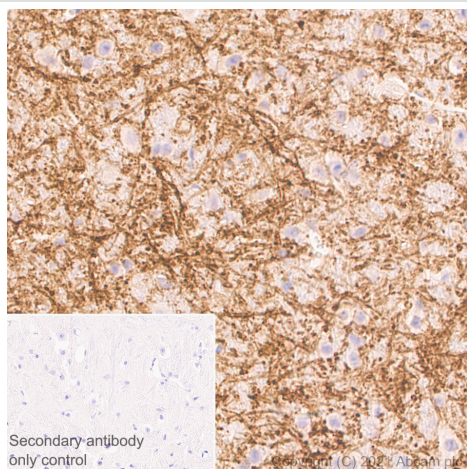
Application	Abreviews	Notes
<b>Dot blot</b>		Use at an assay dependent concentration.
<b>IHC-P</b>		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for Flow Cyt, ICC/IF, IHC-Fr, IP or WB.

## 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 downstream 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



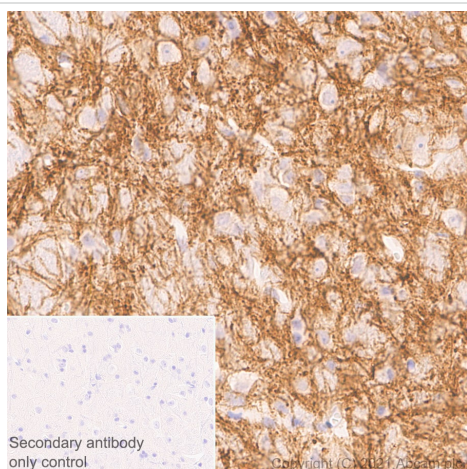
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Delta Opioid Receptor antibody [EPR24378-193] - BSA and Azide free (ab283722)

This data was developed using [ab283692](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling Delta Opioid Receptor with [ab283692](#) at 1/1000 (0.565 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). Positive staining in mouse cerebrum. The section was incubated with [ab283692](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



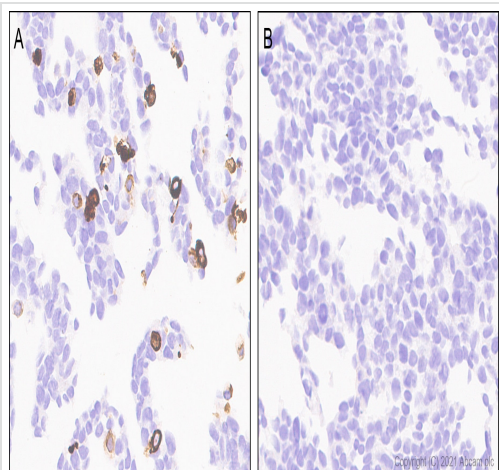
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This data was developed using [ab283692](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling Delta Opioid Receptor with [ab283692](#) at 1/1000 (0.565 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with [ab283692](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Delta Opioid Receptor antibody [EPR24378-193] - BSA and Azide free (ab283722)

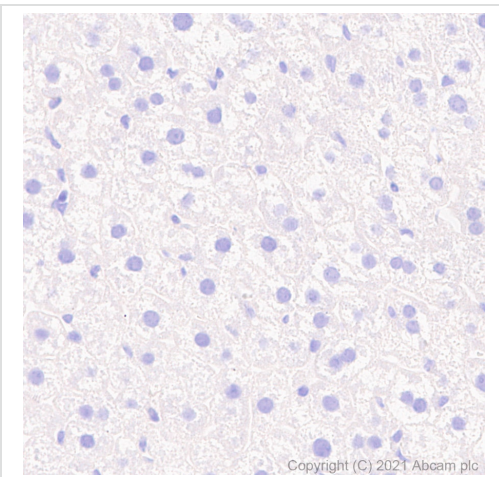
This data was developed using [ab283692](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Delta Opioid Receptor with [ab283692](#) at 1/1000 (0.565 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with [ab283692](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

**Negative control:** no staining in mouse liver.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Delta Opioid Receptor antibody [EPR24378-193] - BSA and Azide free (ab283722)

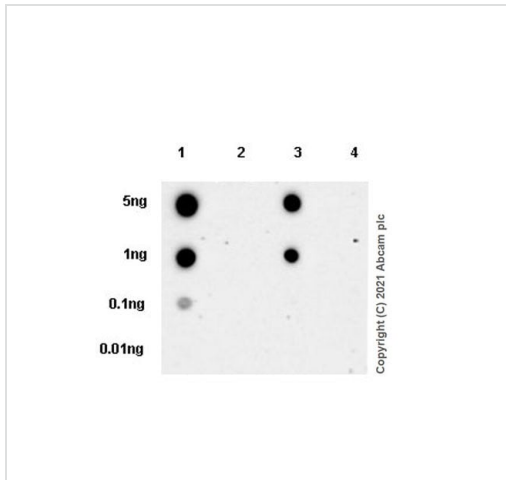
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Immunohistochemical analysis of paraffin-embedded Mouse liver tissue labeling Delta Opioid Receptor with [ab283692](#) at 1/1000 (0.565 ug/ml) dilution followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with [ab283692](#) for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

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Dot Blot - Anti-Delta Opioid Receptor antibody [EPR24378-193] - BSA and Azide free (ab283722)

This data was developed using [ab283692](#), the same antibody clone in a different buffer formulation.

Dot blot analysis of Delta Opioid Receptor using [ab283692](#) at 1/1000 (0.565 ug/ml) dilution followed by a Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) at 1/100000 dilution.

**Lane 1:** Mouse OPRD1 immunogen protein

**Lane 2:** Peptide common to other Opioid receptors





**Lane 3:** Mouse OPRD1 N-terminal peptide

**Lane 4:** Mouse OPRD1 C-terminal peptide

Exposure time: 3 minutes

Blocking and diluting buffer and concentration: 5% NFD/MTBST

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

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

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