

Delta Opioid Receptor Antibody | anti-OPRD1 antibody

Delta Opioid Receptor 3-17, Control Peptide

CATALOG # AAA76511	REACTIVITY Human, Mouse, Rat	APPLICATIONS Western Blot
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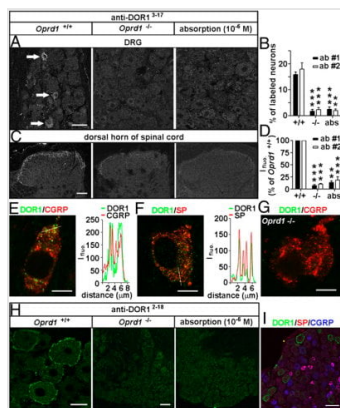
PRODUCT SYNONYMS

Delta Opioid Receptor; Delta Opioid Receptor 3-17; Control Peptide; anti-OPRD1 antibody

PRODUCT SPECIFICATIONS

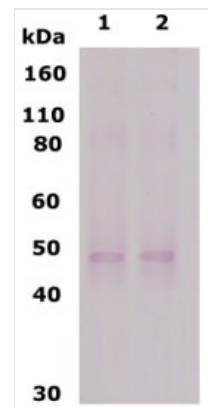
Reactivity	Human, Mouse, Rat
Form/Format	Affinity Purified - Liquid
Sequence Length	372
Applicable Applications for anti-OPRD1 antibody	WB (Western Blot)
Type Info	Rabbit IgG
Immunogen	Synthetic peptide comprising residues 3-17 LVPSARAE LQSSPLV of the mouse and rat DOR-1 protein.

IMAGES



Application Data

Images: Distinct distribution patterns of DORs in subsets of DRG neurons of mice. Immunostaining with antibodies against DOR13-17 [A: 1:30,000, antibody 1 (ab #1); DiaSorin and C: antibody 2 (ab #2); Neuromics] shows DORs in small DRG neurons and afferent fibers in spinal laminae I-II. This immunostaining pattern is abolished by the antiserum preabsorption or the deletion of Oprd1 exon 1. Reduction in immunostaining is quantitatively assayed by determining the percentage of positive DRG neurons (B; n = 6) and fluorescence intensity (Iflu.) in the laminae I-II (D; n = 5). **P < 0.01; ***P < 0.001. (Scale bars: A and C, 40 μm.). DOR labeling (anti-DOR13-17, 1:30,000; DiaSorin) associated with vesicles in peptidergic small DRG neurons (E and F) is absent in Oprd1 exon 1-deleted mice (G). Colocalization of DORs and neuropeptides is shown by correlated peaks of Iflu. measured along lines. (Scale bar: 8 μm.). (H) Immunostaining with antibodies against DOR12-18 (1:60,000; Alomone) shows the presence of DORs on the cell surface of large DRG neurons of mice. (Scale bar: 25 μm.). This staining pattern is abolished by preabsorption and is absent in Oprd1 exon 1-deleted mice. (Scale bar: 80 μm.). (I) Triple-immunostaining shows that DOR+ large DRG neurons contain neither SP nor CGRP. (Scale bar: 80 μm.). www.pnas.org/cgi/doi/10.1073/pnas.1008382107



Application Data

Image: Western blot analysis with DOR at a dilution of 1:500. Lane 1: 10 ug of human brain lysate and Lane 2: 10 ug rat brain lysate

ADDITIONAL INFORMATION

Related Product Information for anti-OPRD1 antibody	G protein-coupled receptors (GPCRs) are the largest family of membrane receptors that activate intracellular signaling cascades and undergo endocytosis, recycling, or degradation upon stimulation. The (mu) m-, delta (d) and kappa (k) opioid receptors are GPCRs of the nervous system, which control pain, stress, and addictive behaviors. The delta opioid receptor (DOR-1) is the stereoselective receptor for enkephalins and inhibits neurotransmitter release by reducing calcium ion currents and increasing potassium ion conductance.
Product Categories/Family for anti-OPRD1 antibody	Antibodies; Opioid Receptors; Delta Opioid Receptor 3-17

NCBI AND UNIPROT INFORMATION

NCBI GI #	63477962
NCBI GeneID	4985
NCBI Accession #	NP_000902.3
NCBI GenBank Nucleotide #	NM_000911.3
Molecular Weight	40,369 Da
NCBI Official Full Name	delta-type opioid receptor
NCBI Official Synonym Full Names	opioid receptor delta 1
NCBI Official Symbol	OPRD1
NCBI Official Synonym Symbols	OPRD
NCBI Protein Information	delta-type opioid receptor
UniProt Protein Name	Delta-type opioid receptor
UniProt Gene Name	OPRD1
UniProt Synonym Gene Names	OPRD; D-OR-1; DOR-1
UniProt Entry Name	OPRD_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-mouse-rat-antibody/delta-opioid-receptor/76511>