

Rabbit anti-Human OPRD1 Polyclonal Antibody | anti-OPRD1 antibody

OPRD1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325647	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

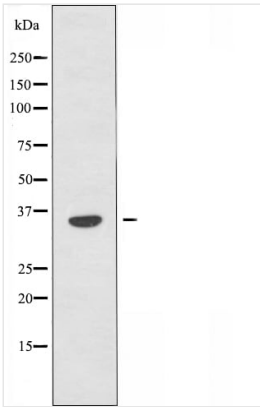
PRODUCT SYNONYMS

OPRD1; Polyclonal Antibody; OPRD1 Antibody; D-OR-1; Delta type opioid receptor; Delta type opioid receptor DOR 1; Delta type opioid receptor DOR1; Delta-type opioid receptor; DOR 1; DOR-1; DOR1; mDOR; Nbor; Opioid receptor delta 1; OPRD 1; OPRD; OPRD_HUMAN; Oprd1; anti-OPRD1 antibody

PRODUCT SPECIFICATIONS

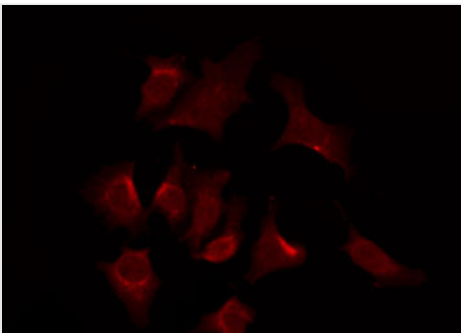
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	OPRD1 antibody detects endogenous levels of total OPRD1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	372
Applicable Applications for anti-OPRD1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Multipass Membrane Protein
Tissue Specificity	Detected in oocytes (at protein level). Detected in brain cortex, hypothalamus, hippocampus and olfactory bulb. Detected in oocytes.
Predicted Cross Reactivity	Bovine, Rabbit
Similarity	Bovine (100%), Rabbit (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of extracts from NIH-3T3 cells, using OPRD1 antibody.



IF (Immunofluorescence)

AAA325647 staining 293 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-OPRD1 antibody	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. Subunit Structure: May form homooligomers. Forms a heterodimer with OPRM1 (By similarity). Interacts with GPRASP1 (PubMed:12142540, PubMed:15086532). Interacts with RTP4; the interaction promotes cell surface localization of the OPRD1-OPRM1 heterodimer (By similarity). Post-translational Modifications: 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. Similarity: Belongs to the G-protein coupled receptor 1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	63477962
NCBI GeneID	4985
NCBI Accession #	NP_000902.3
NCBI GenBank Nucleotide #	NM_000911.3
UniProt Accession #	P41143; B5B0B8
Molecular Weight	Observed: 36 kD Predicted: 41 kDa
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	DOP; DOR; DOR1; OPRD
NCBI Protein Information	delta-type opioid receptor
UniProt Protein Name	Delta-type opioid receptor
UniProt Gene Name	OPRD1

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/polyclonal/oprd1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325647>