

## Product datasheet for **AP20345PU-N**

### Delta Opioid Receptor (OPRD1) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500-1/1000. <b>Immunohistochemistry on Paraffin Sections:</b> 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of DOR-1 protein.
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 35, 50 kDa
Gene Name:	opioid receptor delta 1
Database Link:	<a href="#">Entrez Gene 18386 Mouse</a> <a href="#">Entrez Gene 24613 Rat</a> <a href="#">Entrez Gene 4985 Human P41143</a>



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**Background:**

The opioid receptors are G-protein coupled, seven-transmembrane domain receptors for enkephalins, endorphins, and dynorphins. Three different opioid receptor subtypes (kappa, delta and mu) were first identified by their different selectivities for various naturally occurring alkaloid opioid ligands, and subsequently confirmed by molecular cloning. The amino acid sequences of the opioid receptor subtypes are ~70% homologous, and are similar to somatostatin receptors (SSTRs) showing ~40 % homology with SSTR1. G-protein binding is thought to occur at the third intracellular loop of the opioid receptors, which is also the location of consensus sequences for phosphorylation of the receptor. Interestingly, the genes encoding the specific receptor subtypes are found on different chromosomes in both the human and mouse genomes.

**Synonyms:**

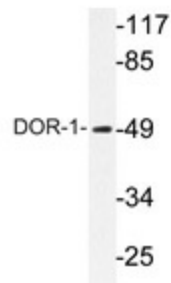
OPRD1, OPRD, DOR-1, D-OR-1

**Protein Families:**

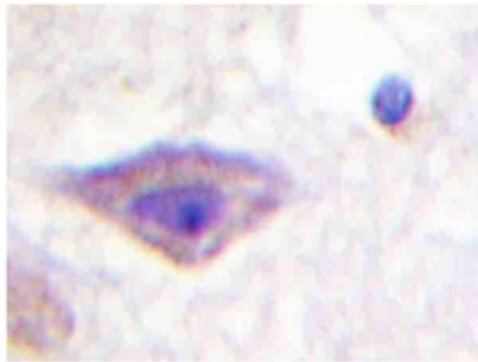
Druggable Genome, Transmembrane

**Protein Pathways:**

Neuroactive ligand-receptor interaction

**Product images:**

Western blot analysis of DOR-1 antibody (Cat.-No AP20345PU-N) in extracts from HUVEC cells.



Immunohistochemistry analysis of DOR-1 antibody (Cat.-No AP20345PU-N) in paraffin-embedded human brain tissue.