

**D4DR Polyclonal Antibody**  
Catalog # AP69461**Specification**

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**D4DR Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P21917</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**D4DR Polyclonal Antibody - Additional Information****Gene ID** 1815**Other Names**

DRD4; D(4) dopamine receptor; D(2C) dopamine receptor; Dopamine D4 receptor

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**D4DR Polyclonal Antibody - Protein Information****Name** DRD4**Function**

Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Activated by dopamine, but also by epinephrine and norepinephrine, and by numerous synthetic agonists and drugs (PubMed: [16423344](http://www.uniprot.org/citations/16423344), PubMed: [27659709](http://www.uniprot.org/citations/27659709), PubMed: [29051383](http://www.uniprot.org/citations/29051383), PubMed: [9003072](http://www.uniprot.org/citations/9003072)). Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (PubMed: [16423344](http://www.uniprot.org/citations/16423344), PubMed: [27659709](http://www.uniprot.org/citations/27659709), PubMed: [29051383](http://www.uniprot.org/citations/29051383), PubMed: [7512953](http://www.uniprot.org/citations/7512953), PubMed: [7643093](http://www.uniprot.org/citations/7643093)). Modulates the circadian rhythm of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells (By similarity).

### Cellular Location

Cell membrane; Multi-pass membrane protein

### Tissue Location

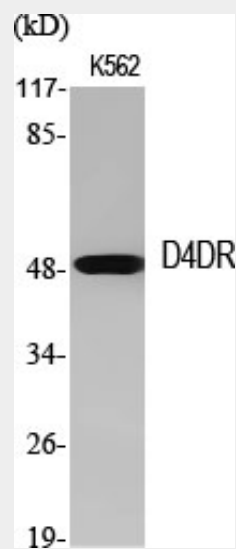
Highly expressed in retina. Detected at much lower levels in brain, in amygdala, thalamus, hypothalamus, cerebellum and pituitary.

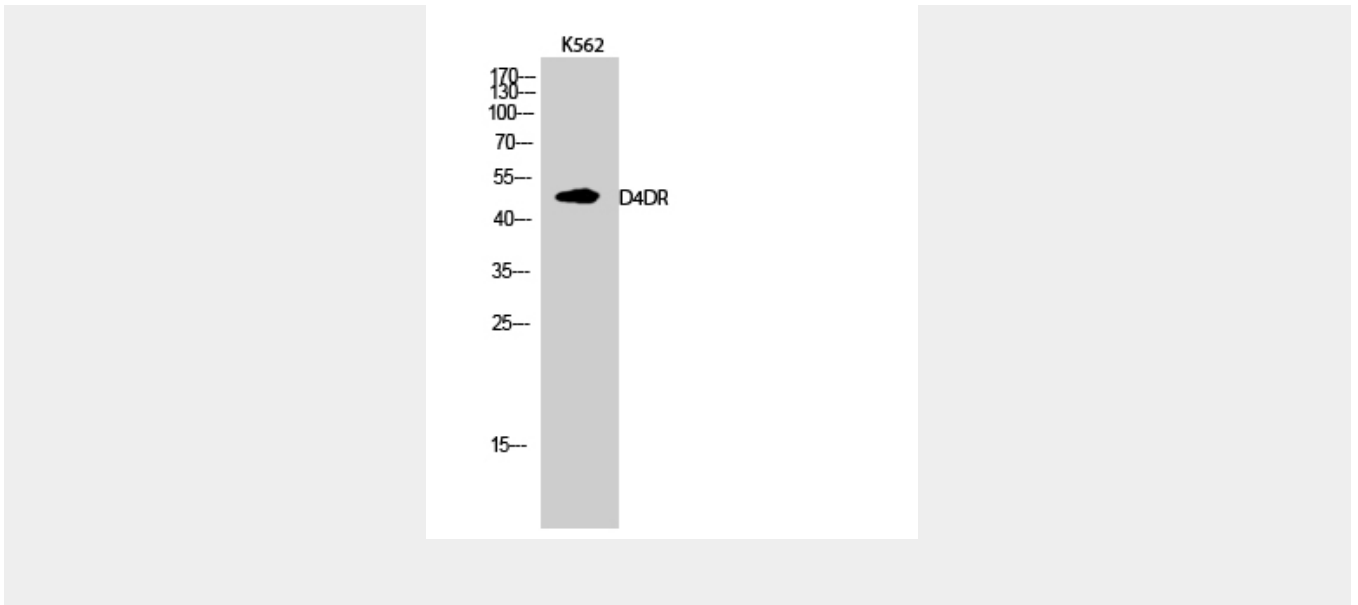
### D4DR Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### D4DR Polyclonal Antibody - Images





### **D4DR Polyclonal Antibody - Background**

Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Activated by dopamine, but also by epinephrine and norepinephrine, and by numerous synthetic agonists and drugs (PubMed:9003072, PubMed:16423344, PubMed:27659709, PubMed:29051383). Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (PubMed:7512953, PubMed:7643093, PubMed:16423344, PubMed:27659709, PubMed:29051383). Modulates the circadian rhythm of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells (By similarity).