

**Dopamine receptor D4 / DRD4 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2534a

**Specification**

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**Dopamine receptor D4 / DRD4 Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">P21917</a>
Other Accession	<a href="#">NP_000788.2</a> , <a href="#">1815</a>
Predicted	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	43901

**Dopamine receptor D4 / DRD4 Antibody (internal region) - Additional Information**

**Gene ID** 1815

**Other Names**

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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Dopamine receptor D4 / DRD4 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Dopamine receptor D4 / DRD4 Antibody (internal region) - 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: [a](#)

href="http://www.uniprot.org/citations/16423344" target="\_blank">16423344</a>, PubMed:<a href="http://www.uniprot.org/citations/27659709" target="\_blank">27659709</a>, PubMed:<a href="http://www.uniprot.org/citations/29051383" target="\_blank">29051383</a>, PubMed:<a href="http://www.uniprot.org/citations/7512953" target="\_blank">7512953</a>, PubMed:<a href="http://www.uniprot.org/citations/7643093" target="\_blank">7643093</a>). 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.

**Dopamine receptor D4 / DRD4 Antibody (internal region) - 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](#)

**Dopamine receptor D4 / DRD4 Antibody (internal region) - Images****Dopamine receptor D4 / DRD4 Antibody (internal region) - References**

Meta-analysis shows significant association between dopamine system genes and attention deficit hyperactivity disorder (ADHD). Li D, Sham PC, Owen MJ, He L. Hum Mol Genet. 2006 Jul 15;15(14):2276-84. Epub 2006 Jun 14. PMID: 16774975