

Dopamine Receptor D4 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP51169**Specification**

Dopamine Receptor D4 Antibody - Product Information

Application	WB
Primary Accession	P21917
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48 KDa
Antigen Region	341 - 400

Dopamine Receptor D4 Antibody - Additional Information**Gene ID** 1815**Other Names**

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

Target/Specificity

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Dopamine Receptor D4. The exact sequence is proprietary.

Dilution

WB~~ 1:1000

Format

0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Dopamine Receptor D4 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, PubMed:27659709, PubMed:29051383, PubMed:9003072). Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (PubMed:16423344, PubMed:16423344, PubMed:16423344).

href="http://www.uniprot.org/citations/27659709" target="_blank">27659709, PubMed:29051383, PubMed:7512953, PubMed: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

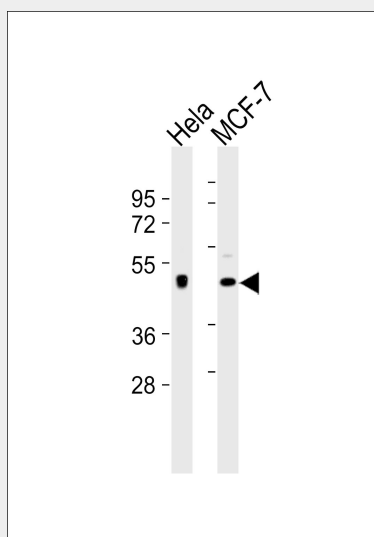
Highly expressed in retina. Detected at much lower levels in brain, in amygdala, thalamus, hypothalamus, cerebellum and pituitary.

Dopamine Receptor D4 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](#)

Dopamine Receptor D4 Antibody - Images



All lanes : Anti-Dopamine Receptor D4 Antibody at 1:1000 dilution Lane 1: HeLa whole cell lysates Lane 2: MCF-7 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Dopamine Receptor D4 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. Its activity is mediated by G proteins which inhibit adenylyl cyclase.

Dopamine Receptor D4 Antibody - References

van Tol H.H.,et al.Nature 358:149-152(1992).

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Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

Kaighin V.A.,et al.Submitted (DEC-2007) to the EMBL/GenBank/DDBJ databases.

Taylor T.D.,et al.Nature 440:497-500(2006).