

# D4DR Polyclonal Antibody

Catalog # AP69461

## Product Information

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<b>Application</b>	WB, IF
<b>Primary Accession</b>	<a href="#">P21917</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	43901

## Additional Information

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<b>Gene ID</b>	1815
<b>Other Names</b>	DRD4; D(4) dopamine receptor; D(2C) dopamine receptor; Dopamine D4 receptor
<b>Dilution</b>	WB--Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications. IF--1:50~200
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

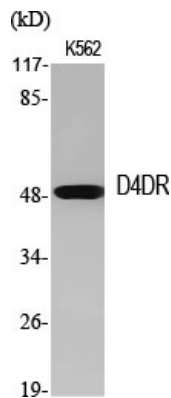
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<b>Name</b>	DRD4
<b>Function</b>	Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Activated by dopamine, but also by epinephrine and norepinephrine, and by numerous synthetic agonists and drugs (PubMed: <a href="#">16423344</a> , PubMed: <a href="#">27659709</a> , PubMed: <a href="#">29051383</a> , PubMed: <a href="#">9003072</a> ). Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (PubMed: <a href="#">16423344</a> , PubMed: <a href="#">27659709</a> , PubMed: <a href="#">29051383</a> , PubMed: <a href="#">7512953</a> , PubMed: <a href="#">7643093</a> ). Modulates the circadian rhythm of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells (By similarity).
<b>Cellular Location</b>	Cell membrane; Multi-pass membrane protein
<b>Tissue Location</b>	Highly expressed in retina. Detected at much lower levels in brain, in amygdala, thalamus, hypothalamus, cerebellum and pituitary.

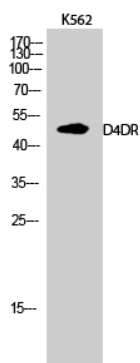
## Background

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).

## Images



Western Blot analysis of various cells using D4DR Polyclonal Antibody



Western Blot analysis of K562 cells using D4DR Polyclonal Antibody

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.