

D4DR Polyclonal Antibody

Catalog # AP69461

Product Information

Application	WB, IF, ICC, E
Primary Accession	P21917
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43901

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. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

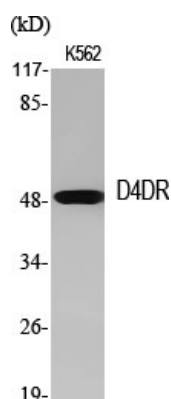
Protein Information

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: 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.

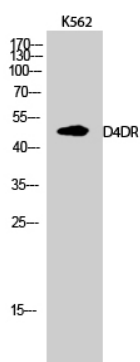
Background

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

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