

## Product datasheet for **BP123S**

### Dopamine Receptor D4 (DRD4) Rabbit Polyclonal Antibody

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Recommended Dilution:</b>	Immunohistochemistry /Immunocytochemistry: this antiserum has been found to stain specific cells in various regions of PLP fixed rat brain sections at a dilution of 1:10,000. This includes the glomeruli of the olfactory bulb, staining of cortex layer 4 and dendritic staining in cortex layers 2 and 3. In layer 5 of the cortex, apical dendrites of many neurons were stained. In the hippocampus, diffuse immunoreactivity was observed in the molecular layer of the dentate gyrus, with fine dots associated with many neurons in the granule cell layer. Western immunoblot: using whole rat brain homogenate resulted in a single wide band being detected at ~48-53 kD at 1:500 dilution. ELISA.
<b>Reactivity:</b>	Human, Rat
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	D4 (aa. 176-185) covalently attached to a carrier protein
<b>Specificity:</b>	Specific for Dopamine D4 Receptor (a.a. 176-185). This antisera has been characterized by immunocytochemical, western immunoblot and ELISA techniques. Cross-reactivity: D4 Dopamine Receptor (176-185) 100% D4 Dopamine Receptor 60% D1 Dopamine Receptor (9-21) 0% D1 Dopamine Receptor 0% D2 Dopamine Receptor (272-282) 0% D2 Dopamine Receptor 0% D3 Dopamine Receptor (2-10) 0% D3 Dopamine Receptor 0% D5 Dopamine Receptor (23-35) 0% D5 Dopamine Receptor 0%



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<b>Formulation:</b>	State: Serum State: Lyophilized neat serum without preservatives
<b>Reconstitution Method:</b>	Restore with 0.1 ml of PBS which contains 10 mg/ml BSA or with additional buffer for more dilute antisera.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Lyophilized: Store at 2-8°C (preferably in a desiccator). Reconstituted: Aliquot and store at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	dopamine receptor D4
<b>Database Link:</b>	<a href="#">Entrez Gene 1815 Human P21917</a>
<b>Background:</b>	This gene encodes the D4 subtype of the dopamine receptor. The D4 subtype is a G-protein coupled receptor which inhibits adenylyl cyclase. It is a target for drugs which treat schizophrenia and Parkinson disease. Mutations in this gene have been associated with various behavioral phenotypes, including autonomic nervous system dysfunction, attention deficit/hyperactivity disorder, and the personality trait of novelty seeking. This gene contains a polymorphic number (2-10 copies) of tandem 48 nt repeats; the sequence shown contains four repeats.DRD4 expression has been reported in various regions of the brain as well as in adrenal gland, artery, eye, heart, kidney, placenta, spinal cord, testis, and vas deferens.
<b>Synonyms:</b>	DRD4, D(2C) dopamine receptor