

Product datasheet for **BP119S**

Dopamine Receptor D1 (DRD1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	Suitable for immunocytochemical detection of the D1 dopamine receptor: this antiserum has been found to stain specific cells in various regions of PLP fixed rat brain sections at a dilution of 1:5,000. This includes Medial septum, Nucleus accumbens, Dentate gyrus, Globus pallidus, Medial forebrain bundle, Cortex regions 1-3, Substantia Nigra reticulata, and the Ventral tegmental area. Western immunoblots using whole rat brain homogenate resulted in a single band being detected at ~50 kD at 1:1,000 dilution.
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	D1 (Ac-9-21-Cys22) covalently attached to a carrier protein.
Specificity:	Specific for Dopamine D1 Receptor (a.a. 9-21). This antisera has been characterized by immunocytochemical, Western immunoblot and ELISA techniques. Cross-reactivity: D1 Dopamine Receptor (9-21) 100% D1 Dopamine Receptor 90% D2 Dopamine Receptor (272-282) 0% D2 Dopamine Receptor 0% D3 Dopamine Receptor (2-10) 0% D3 Dopamine Receptor 0% D4 Dopamine Receptor (176-185) 0% D4 Dopamine Receptor 0% D5 Dopamine Receptor (23-35) 0% D5 Dopamine Receptor 0%
Formulation:	State: Serum State: Lyophilized neat serum without preservatives.
Reconstitution Method:	Reconstitute with 0.1 ml of PBS, which contains 10 mg/ml BSA, or with additional buffer for more dilute antisera.



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Conjugation:	Unconjugated
Storage:	Lyophilized: Store at 2-8°C (preferably in a dessicator). Reconstituted: Aliquot and store at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	dopamine receptor D1
Database Link:	Entrez Gene 1812 Human P21728
Background:	The D1 subtype is the most abundant dopamine receptor in the central nervous system. This G protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2 mediated events. Alternate transcription initiation sites result in two transcript variants of this gene. Dopamine receptor D1 has been reported mostly in various regions of the brain. ESTs have been isolated from normal olfactory epithelium and cancerous genitourinary tract libraries.
Synonyms:	DRD1