Rabbit Anti-Dopamine Polyclonal: RC0020, RC0020RTU7

Intended Use: For Research Use Only

Description: Dopamine is a catecholamine neurotransmitter expressed mainly in the brain that activates dopamine receptors. Dopamine is also a neurohormone released by the hypothalamus. Its chemical name is 4-(2-aminoethyl)benzene-1,2-diol, and its main function is to inhibit the release of prolactin from the anterior lobe of the pituitary. Dopamine can be used as a sympathomimetic drug because it produces effects such as increased heart rate and blood pressure. Changes in Dopamine concentration within the brain may explain symptoms observed in individuals with Schizophrenia, and a reduction in its concentration is associated with Parkinson's disease.

Specifications

Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human
Immunogen:	Dopamine-BSA-Glutaraldehyde conjugate
Localization:	Membrane, cytoplasm
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA

Package:

Description	Catalog No.	Size
Dopamine Polyclonal Concentrated	RC0020	1 ml
Dopamine Polyclonal Prediluted	RC0020RTU7	7 ml

IHC Procedure*

Positive Control Tissue:	Breast carcinoma, GIST
Concentrated Dilution:	10-50
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	Overnight at 4°C
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.

References:

1. Neurotoxic effect of the herbicide paraquat on ascidian larvae. Giuliana Zega,et al. Environmental toxicology and pharmacology 29 2010.
2. 7-nitroindazole attenuates 6-hydroxydopamine-induced spatial learning deficits and dopamine neuron loss in a presymptomatic animal model of Parkinson's disease. Kristi L Haik, et al. Experimental and clinical psychopharmacology 16 178-89 2008.
3. Estrogen protects against the synergistic toxicity by HIV proteins, methamphetamine and cocaine. Turchan, J; et al. BMC neuroscience 2 3 2001.
4. Neuronal release of endogenous dopamine from corpus of guinea pig stomach. K Shichijo, et al. The American journal of physiology 273 G1044-50 1997.

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