

Datasheet for ABIN3030766

anti-Dopamine Receptor d1 antibody (AA 221-242)



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2 Images

Overview

Quantity:	100 µg
Target:	Dopamine Receptor d1 (DRD1)
Binding Specificity:	AA 221-242
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Dopamine Receptor d1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Amino acids 221-242 (AQKQIRRIAALERAHVHAKNCQ-human) were used as the immunogen for this DRD1 antibody.
Isotype:	IgG
Purification:	Antigen affinity

Target Details

Target:	Dopamine Receptor d1 (DRD1)
Alternative Name:	DRD1 Dopamine Receptor D1 (DRD1 Products)
Background:	Dopamine receptor D1 is the most highly expressed DA receptor subtype among the DA receptor family. Receptors for dopamine have been classified into two functional types, D1 and D2. They belong to the family of receptors acting through G (or guanine nucleotide-binding)

Target Details

proteins. D2Rs inhibit adenylyl cyclase, but D1Rs stimulate adenylyl cyclase and activate cyclic AMP-dependent protein kinases. DRD1/2 are targets of drug therapy in many psychomotor disorders, including Parkinson's disease and schizophrenia, and may also have a role in drug addiction and alcoholism. D1Rs regulate neuron growth and differentiation, influence behaviour and modify DRD2-mediated events. And the presence of a DRD1 gene restriction fragment length polymorphism will be helpful for future disease linkage studies. This protein also regulates the neurochemical architecture of the striatum and is critical for the normal expression of motor activity.

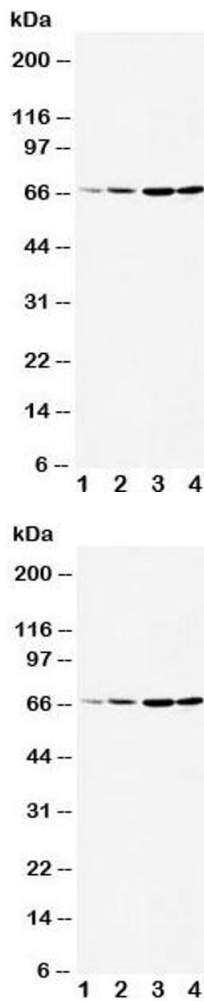
UniProt:	P21728
Pathways:	cAMP Metabolic Process , Inositol Metabolic Process , Protein targeting to Nucleus , Feeding Behaviour , Smooth Muscle Cell Migration , Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Titration of the Dopamine Receptor D1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 0.5-1 µg/mL,IHC (Paraffin): 0.5-1 µg/mL
Restrictions:	For Research Use only

Handling

Buffer:	0.5 mg/mL if reconstituted with 0.2 mL sterile DI water
Storage:	-20 °C
Storage Comment:	The DRD1 antibody can be stored at 4°C to -20°C. After reconstitution, aliquot and store at -20°C. Avoid repeated freeze/thaws.



Western Blotting

Image 1. Western blot testing of DRD1 antibody and Lane 1: rat testis; 2: rat brain; 3: U87; 4: HeLa cell lysate. The larger than expected size may be due to glycosylation, phosphorylation or DRD1 heterodimerizing with another dopamine receptor (Ref 1).

Western Blotting

Image 2. Western blot testing of DRD1 antibody and Lane 1: rat testis