

Datasheet for ABIN7043105

anti-Dopamine Receptor d1 antibody (C-Term, Intracellular)[Go to Product page](#)**3** Images

Overview

Quantity:	25 µL
Target:	Dopamine Receptor d1 (DRD1)
Binding Specificity:	AA 372-385, C-Term, Intracellular
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Dopamine Receptor d1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: SSHHEPRGSISKDC, corresponding to amino acid residues 372-385 of rat DRD1
Isotype:	IgG
Characteristics:	Anti-D1 Dopamine Receptor Antibody (ABIN7043105, ABIN7044227 and ABIN7044228)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot and immunohistochemistry applications. It has been designed to recognize DRD1 from rat, mouse, and human samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

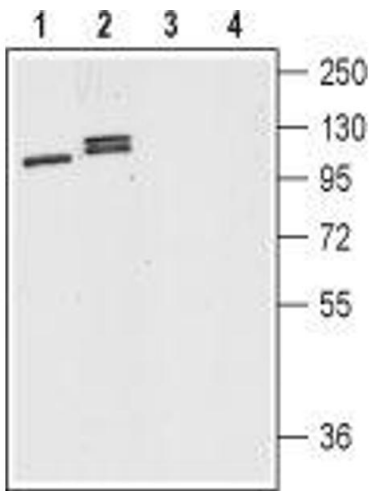
Target:	Dopamine Receptor d1 (DRD1)
Alternative Name:	D1 Dopamine Receptor (DRD1 Products)
Background:	Alternative names: D1 Dopamine Receptor, DRD1, D(1A) dopamine receptor
Gene ID:	24316
NCBI Accession:	NM_000794
UniProt:	P18901
Pathways:	cAMP Metabolic Process , Inositol Metabolic Process , Protein targeting to Nucleus , Feeding Behaviour , Smooth Muscle Cell Migration , Regulation of long-term Neuronal Synaptic Plasticity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

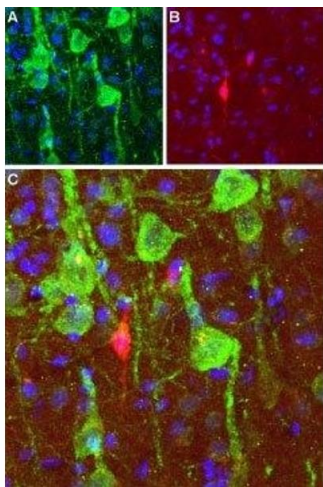
Handling

Format:	Lyophilized
Reconstitution:	25 µL, 50 µL or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT, 4 °C, -20 °C
Storage Comment:	<p>Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C.</p> <p>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).</p>



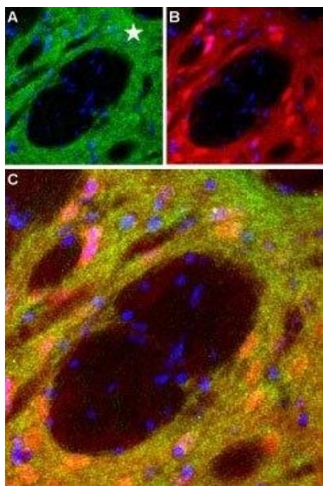
Western Blotting

Image 1. Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) brain lysates: - 1,2. Anti-D1 Dopamine Receptor Antibody (ABIN7043105, ABIN7044227 and ABIN7044228), (1:200).3,4. Anti-D1 Dopamine Receptor Antibody, preincubated with D1 Dopamine Receptor Blocking Peptide (#BLP-DR001).



Immunohistochemistry

Image 2. Expression of DRD1 in rat cortex - Immunohistochemical staining of perfusion-fixed frozen brain sections with Anti-D1 Dopamine Receptor Antibody (ABIN7043105, ABIN7044227 and ABIN7044228), (1:100), (green). A. DRD1 appears in the soma and dendrites of cortical pyramidal neurons in layer 5. B. The same section was stained for Calbindin D28k (red), a marker of interneurons. C. Merging of the two images demonstrates that localization of DRD1 is restricted to pyramidal neurons. DAPI is used as the counterstain.



Immunohistochemistry

Image 3. Expression of DRD1 in rat striatum - Immunohistochemical staining of perfusion-fixed frozen brain sections with Anti-D1 Dopamine Receptor Antibody (ABIN7043105, ABIN7044227 and ABIN7044228), (1:100), (green). A. DRD1 appears in the striatal matrix (star). B. The same section was stained for Calbindin D28k (red), a marker of interneurons. C. Merging of the two images demonstrates that localization of DRD1 is restricted to the matrix. DAPI is used as the counterstain.