Datasheet for ABIN7043106

anti-Dopamine Receptor d1 antibody (C-Term, Intracellular)

3 Images

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Overview

Quantity:	25 µL
Target:	Dopamine Receptor d1 (DRD1)
Binding Specificity:	AA 372-385, C-Term, Intracellular
Reactivity:	Human, Rat, Mouse
Host:	Guinea Pig
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:	Guinea pig Anti-D1 Dopamine Receptor Antibody is directed against an epitope of rat D1 Receptor. Guinea pig Anti-D1 Dopamine Receptor Antibody (#) raised in guinea pigs can be used in western blot and immunohistochemistry applications. It has been designed to recognize DRD1 from rat, human and mouse samples. The antigen used to immunize guinea pigs is the same as Anti-D1 Dopamine Receptor Antibody (ABIN7043105, ABIN7044227 and ABIN7044228)) raised in rabbit. Our line of guinea pig antibodies enables more flexibility with our products such as multiplex staining studies, immunoprecipitation, etc.

Product Details

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

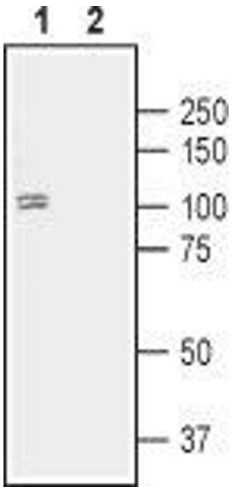
Handling

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:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. 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

Handling

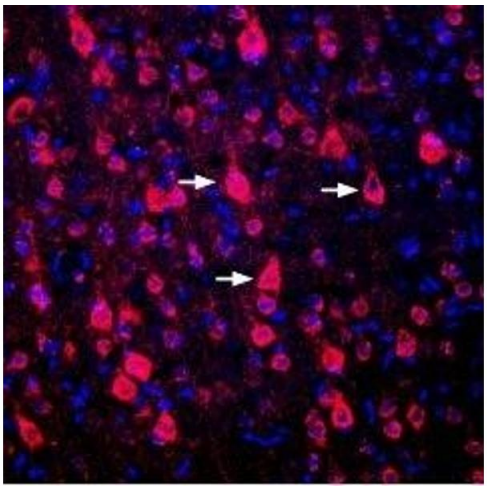
thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



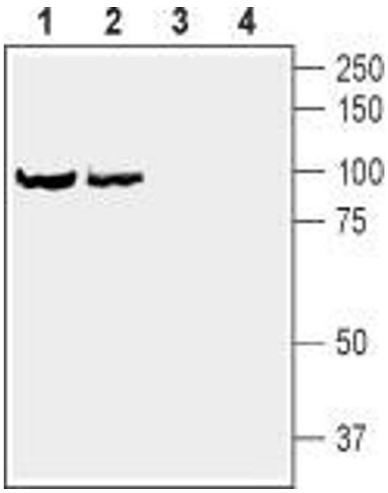
Western Blotting

Image 1. Western blot analysis of human SH-SY5Y neuroblastoma cell lysate: - 1. Guinea pig Anti-D1 Dopamine Receptor Antibody (ABIN7043106, ABIN7045428 and ABIN7045429), (1:400).2. Guinea pig 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 rat brain sections using Guinea pig Anti-D1 Dopamine Receptor Antibody (ABIN7043106, ABIN7045428 and ABIN7045429), (1:300), followed by goat-anti-guinea pig-Cy3 antibody. DRD1 staining (red) appears in neuronal soma (arrows). Nuclei are stained with DAPI (blue).



Western Blotting

Image 3. Western blot analysis of rat brain synaptosomal fraction (lanes 1 and 3) and mouse brain synaptosomal fraction (lanes 2 and 4): - 1,2. Guinea pig Anti-D1 Dopamine Receptor Antibody (ABIN7043106, ABIN7045428 and ABIN7045429), (1:400).3,4. Guinea pig Anti-D1 Dopamine Receptor Antibody, preincubated with D1 Dopamine Receptor Blocking Peptide (#BLP-DR001).