

Product datasheet

Anti-Dopamine Receptor D1 antibody ab40653

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Overview

Product name	Anti-Dopamine Receptor D1 antibody
Description	Rabbit polyclonal to Dopamine Receptor D1
Host species	Rabbit
Specificity	This antibody shows reactivity with: 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%; and D5 Dopamine Receptor 0%.
Tested applications	Suitable for: WB, ICC/IF, IHC-P
Species reactivity	Reacts with: Rat, Human Predicted to work with: Mouse, Cow, Pig, Macaque monkey, Rhesus monkey 
Immunogen	Synthetic peptide: MDGTGLVVERDFS linked to a carrier protein by a carboxyl terminal Cysteine residue linker. Sequence corresponds to amino acids 9-21 of Human Dopamine Receptor D1. Run BLAST with Run BLAST with
Positive control	ICC: PLP fixed rat brain sections. The antiserum has been found to stain specific cells in various regions, including the Medial septum, Nucleus accumbens, Dentate gyrus, Globus pallidus, Medial forebrain bundle, Cortex regions 1-3, Substantia Nigra reticulata, and the Ventral tegmental area. WB: whole rat brain homogenate.

Properties

Form	Lyophilised:Reconstitute with 0.1ml of PBS which contains 10 mg/ml BSA.
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Constituent: Whole serum
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab40653** in the following tested applications.

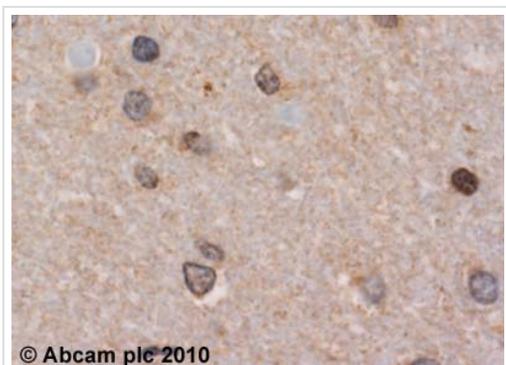
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 49 kDa (predicted molecular weight: 49 kDa). Can be blocked with Dopamine Receptor D1 peptide (ab137968) . With this antibody, we have found that blocking with 5% goat or donkey serum significantly reduces background as compared to BSA or milk.
ICC/IF		1/5000.
IHC-P		1/500.

Target

Function	Dopamine receptor whose activity is mediated by G proteins which activate adenylyl cyclase.
Tissue specificity	Detected in caudate, nucleus accumbens and in the olfactory tubercle.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Cellular localization	Cell membrane. Endoplasmic reticulum membrane. Transport from the endoplasmic reticulum to the cell surface is regulated by interaction with DNAJC14.

Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dopamine Receptor D1 antibody (ab40653)

ab40653 (1:500) staining Dopamine Receptor D1 in human cerebellum using an automated system (DAKO Autostainer Plus).

Using this protocol there is strong staining of cytoplasmic and membrane regions in the fibrous glial cells.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako envision flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended. Signal amplification may be required.



Western blot - Anti-Dopamine Receptor D1 antibody (ab40653)

All lanes : Anti-Dopamine Receptor D1 antibody (ab40653) at 1/1000 dilution

Lane 1 : Human brain tissue lysate - total protein (ab29466)

Lane 2 : Rat Cortex Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 49 kDa

Observed band size: 49 kDa

Additional bands at: 42 kDa, 75 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 90 seconds

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