


Product datasheet

Anti-Dopamine Receptor D3/DRD3 antibody ab150543

1 Image

Overview

Product name	Anti-Dopamine Receptor D3/DRD3 antibody
Description	Rabbit polyclonal to Dopamine Receptor D3/DRD3
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Hamster, Dog, Pig, Chimpanzee, Monkey, Common marmoset, Bat, Elephant 
Immunogen	Synthetic peptide corresponding to Human Dopamine Receptor D3/DRD3. Database link: NP_000787.2
Positive control	Human brain tissue (globus pallidus).
General notes	This product was previously labelled as Dopamine Receptor D3

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

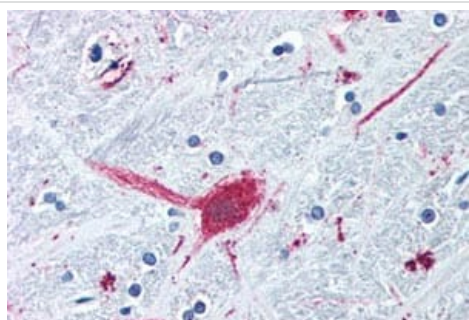
The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab150543 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 16 - 32 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	This is one of the five types (D1 to D5) of receptors for dopamine. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase. Promotes cell proliferation.
Tissue specificity	Brain.
Involvement in disease	Genetic variation in DRD3 is associated with essential tremor hereditary type 1 (ETM1) [MIM:190300]. ETM1 is the most common movement disorder. The main feature is postural tremor of the arms. Head, legs, trunk, voice, jaw, and facial muscles also may be involved. The condition can be aggravated by emotions, hunger, fatigue and temperature extremes, and may cause a functional disability or even incapacitation. Inheritance is autosomal dominant.
Sequence similarities	Belongs to the G-protein coupled receptor 1 family.
Post-translational modifications	Phosphorylated by GRK4 (GRK4-alpha and GRK4-gamma).
Cellular localization	Cell membrane. Both membrane-bound and scattered in the cytoplasm during basal conditions. Receptor stimulation results in the rapid internalization and sequestration of the receptors at the perinuclear area (5 and 15 minutes), followed by the dispersal of the receptors to the membrane (30 minutes). DRD3 and GRK4 co-localize in lipid rafts of renal proximal tubule cells.

Images



Immunohistochemical analysis of formalin-fixed, paraffin-embedded Human brain tissue (globus pallidus) labeling Dopamine Receptor D3/DRD3 with ab150543 at 16 µg/ml.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Dopamine Receptor D3/DRD3 antibody (ab150543)

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