

# Anti-Dopamine Receptor D3/DRD3 antibody ab42114

★★★★★ [3 Abreviews](#) [14 References](#) [2 图像](#)

### 概述

产品名称	Anti-Dopamine Receptor D3/DRD3抗体
描述	兔多克隆抗体to Dopamine Receptor D3/DRD3
宿主	Rabbit
经测试应用	适用于: ELISA, Dot blot, ICC/IF, IP, WB
种属反应性	与反应: Mouse, Rat, Human, Recombinant fragment
免疫原	Synthetic peptide corresponding to Dopamine Receptor D3/DRD3.

[Run BLAST with ExPASy](#) [Run BLAST with NCBI](#)

### 常规说明

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

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	Preservative: 0.02% Sodium azide
纯度	Protein A purified
克隆	多克隆
同种型	IgG

### 应用

**The Abpromise guarantee** **Abpromise™**承诺保证使用ab42114于以下的经测试应用

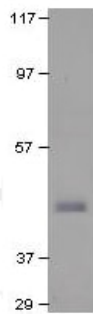
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ELISA		Use at an assay dependent concentration.
Dot blot		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 5 µg/ml.
IP		Use at an assay dependent concentration. 2 Åµl of this antibody will immunoprecipitate 65-80% dopamine recombinant D3 receptor protein from COS1 cells.
WB	★★★★★ (1)	1/1000 - 1/15000. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).

## 靶标

<b>功能</b>	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.
<b>组织特异性</b>	Brain.
<b>疾病相关</b>	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.
<b>序列相似性</b>	Belongs to the G-protein coupled receptor 1 family.
<b>翻译后修饰</b>	Phosphorylated by GRK4 (GRK4-alpha and GRK4-gamma).
<b>细胞定位</b>	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.

## 图片

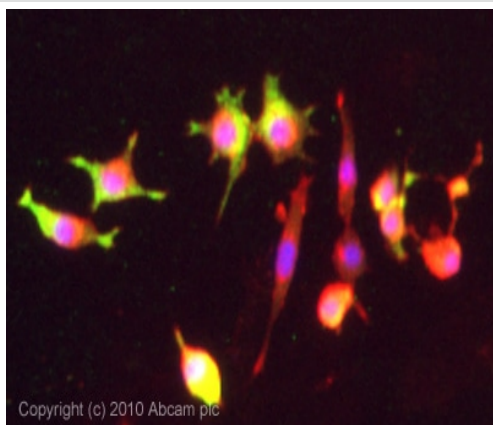


Western blot - Anti-Dopamine Receptor D3/DRD3 antibody (ab42114)

Anti-Dopamine Receptor D3/DRD3 antibody (ab42114) at 1/750 dilution + Dopamine Receptor D3 Positive Control (rat)

**Predicted band size:** 50 kDa

**Observed band size:** 50 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Dopamine Receptor D3/DRD3 antibody (ab42114)

ICC/IF image of ab42114 stained PC12 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab42114, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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