

## Product datasheet

# Anti-Dopamine Receptor D3 antibody ab125467

1 Image

### Overview

<b>Product name</b>	Anti-Dopamine Receptor D3 antibody
<b>Description</b>	Rabbit polyclonal to Dopamine Receptor D3
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Rat, Dog, African green monkey
<b>Immunogen</b>	Synthetic peptide corresponding to a region within the C terminal amino acids 270-319 (QERGGELKRE EKTRNSLMPL REKKATQMVA MLGAFVCW LPFFLTHVLN) of the Human Dopamine Receptor D3 protein (NP_387512). <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>
<b>Positive control</b>	HepG2 cell lysate.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Constituents: 97% PBS, 2% Sucrose
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab125467** in the following tested applications.

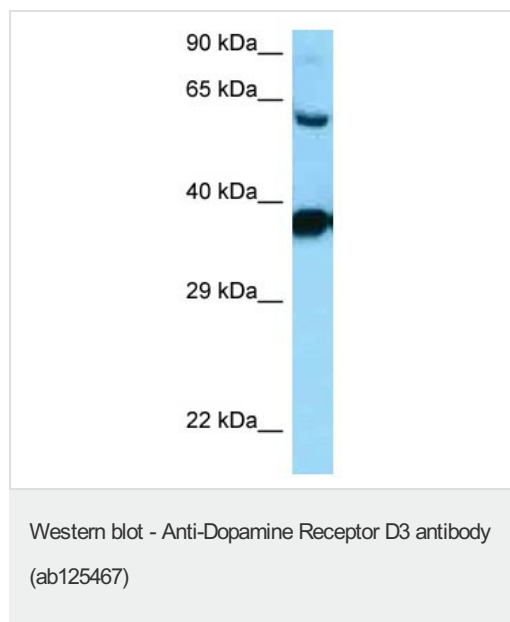
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 41 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

## Target

<b>Function</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>Tissue specificity</b>	Brain.
<b>Involvement in disease</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>Sequence similarities</b>	Belongs to the G-protein coupled receptor 1 family.
<b>Post-translational modifications</b>	Phosphorylated by GRK4 (GRK4-alpha and GRK4-gamma).
<b>Cellular localization</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.

## Images



Anti-Dopamine Receptor D3 antibody (ab125467) at 1 µg/ml + HepG2 cell lysate at 10 µg

**Predicted band size:** 41 kDa

Gel concentration: 12%

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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