

## Drd4 Antibody (RQ6047)

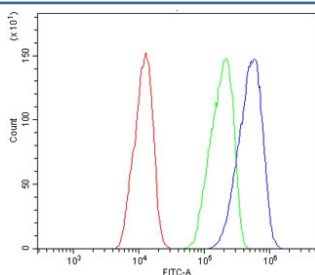
Catalog No.	Formulation	Size
RQ6047	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
<b>UniProt</b>	P51436
<b>Applications</b>	Western Blot : 0.5-1ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
<b>Limitations</b>	This Drd4 antibody is available for research use only.



Western blot testing of 1) rat brain and 2) mouse brain lysate with Drd4 antibody. Predicted molecular weight ~48 kDa.



Flow cytometry testing of rat C6 cells with Drd4 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Drd4 antibody.

## Description

D(4) dopamine receptor is a protein that in humans is encoded by the *Drd4* gene. This gene encodes a protein that is necessary for the repair of ultraviolet light-damaged DNA. This protein is the smaller subunit of a heterodimeric protein complex that participates in nucleotide excision repair, and this complex mediates the ubiquitylation of histones H3 and H4, which facilitates the cellular response to DNA damage. And this subunit appears to be required for DNA binding. Mutations in this gene cause xeroderma pigmentosum complementation group E, a recessive disease that is characterized by an increased sensitivity to UV light and a high predisposition for skin cancer development, in some cases accompanied by neurological abnormalities. Two transcript variants encoding different isoforms have been found for this gene.

## Application Notes

Optimal dilution of the *Drd4* antibody should be determined by the researcher.

## Immunogen

Recombinant mouse protein (amino acids A57-C387) was used as the immunogen for the *Drd4* antibody.

## Storage

After reconstitution, the *Drd4* antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.