

Anti-Dopamine D2 Receptor Antibody
Catalog # ABO11544**Specification**

Anti-Dopamine D2 Receptor Antibody - Product Information

Application	WB, IHC
Primary Accession	P14416
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for D(2) dopamine receptor(DRD2) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Dopamine D2 Receptor Antibody - Additional Information

Gene ID 1813

Other Names

D(2) dopamine receptor, Dopamine D2 receptor, DRD2

Calculated MW

50619 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse

Subcellular Localization

Cell membrane ; Multi-pass membrane protein .

Protein Name

D(2) dopamine receptor

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Dopamine D2 Receptor(360-375aa RRKLSQQKEKKATQML), identical to the related rat and mouse sequences.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time.Avoid repeated freezing and thawing.

Anti-Dopamine D2 Receptor Antibody - Protein Information

Name DRD2

Function

Dopamine receptor whose activity is mediated by G proteins which inhibit adenylyl cyclase (PubMed:21645528). Positively regulates postnatal regression of retinal hyaloid vessels via suppression of VEGFR2/KDR activity, downstream of OPN5 (By similarity).

Cellular Location

Cell membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein

Tissue Location

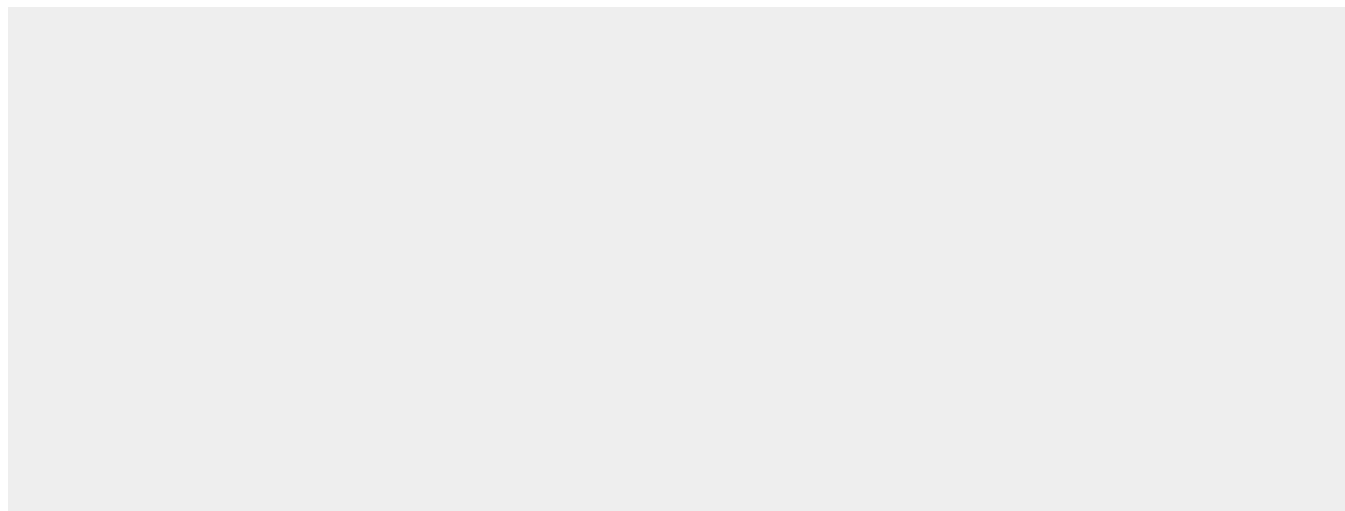
[Isoform 1]: Expressed in the anterior pituitary gland.

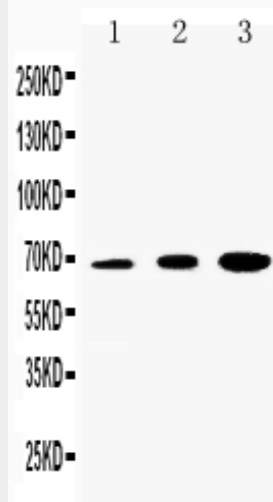
Anti-Dopamine D2 Receptor Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

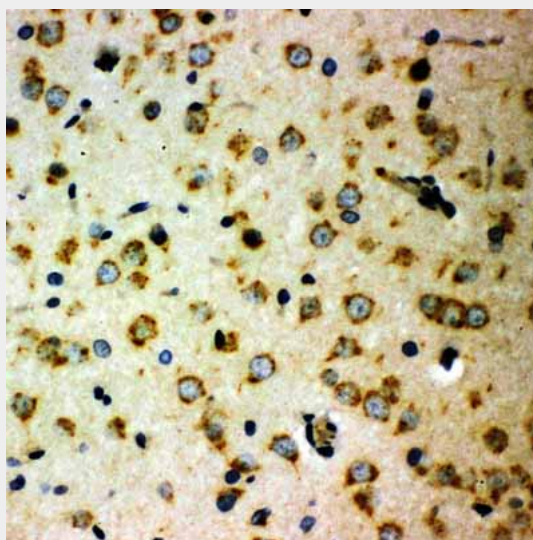
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Dopamine D2 Receptor Antibody - Images





Anti-Dopamine D2 Receptor antibody, ABO11544, Western blotting All lanes: Anti Dopamine D2 Receptor (ABO11544) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: SKOV Whole Cell Lysate at 40ug Lane 3: SW620 Whole Cell Lysate at 40ug Predicted bind size: 51KD Observed bind size: 70KD



Anti-Dopamine D2 Receptor antibody, ABO11544, IHC(P) IHC(P): Rat Brain Tissue

Anti-Dopamine D2 Receptor Antibody - Background

Dopamine receptor D2, also known as D2R or D2DR is a protein that in humans is encoded by the DRD2 gene. DRD2 gene is mapped to 11q23.2. This gene encodes the D2 subtype of the dopamine receptor. This G-protein coupled receptor inhibits adenylyl cyclase activity. A missense mutation in this gene causes myoclonus dystonia; other mutations have been associated with schizophrenia. Alternative splicing of this gene results in two transcript variants encoding different isoforms. A third variant has been described, but it has not been determined whether this form is normal or due to aberrant splicing.