

Anti-Dopamine Receptor D3 Antibody
Catalog # ABO10898**Specification**

Anti-Dopamine Receptor D3 Antibody - Product Information

Application	WB, IHC-P
Primary Accession	P35462
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for D(3) dopamine receptor(DRD3) 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 Receptor D3 Antibody - Additional Information

Gene ID 1814

Other Names

D(3) dopamine receptor, Dopamine D3 receptor, DRD3

Calculated MW

44225 MW KDa

Application Details

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

Subcellular Localization

Cell membrane ; Multi-pass membrane protein . 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.

Tissue Specificity

Brain.

Protein Name

D(3) 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 Receptor D3(352-367aa NTHCQTCHVSPELYSA), different from the related rat and mouse sequences by two amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, 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.

Sequence Similarities

Belongs to the G-protein coupled receptor 1 family.

Anti-Dopamine Receptor D3 Antibody - Protein Information

Name DRD3 ([HGNC:3024](#))

Function

Dopamine receptor whose activity is mediated by G proteins which inhibit adenylyl cyclase. Promotes cell proliferation.

Cellular Location

Cell membrane; Multi-pass membrane protein. Note=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

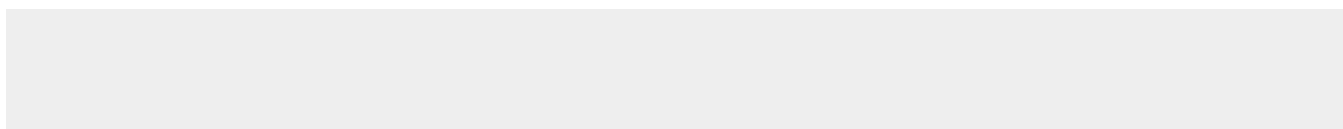
Tissue Location

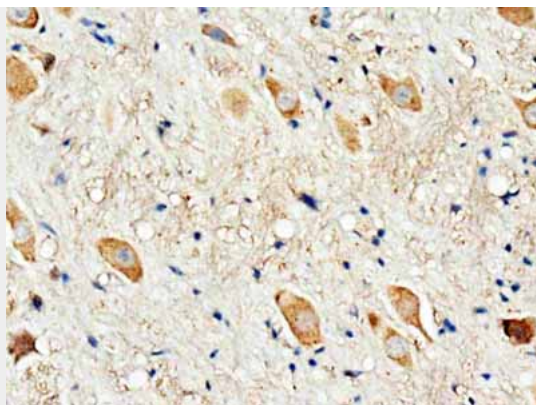
Brain.

Anti-Dopamine Receptor D3 Antibody - Protocols

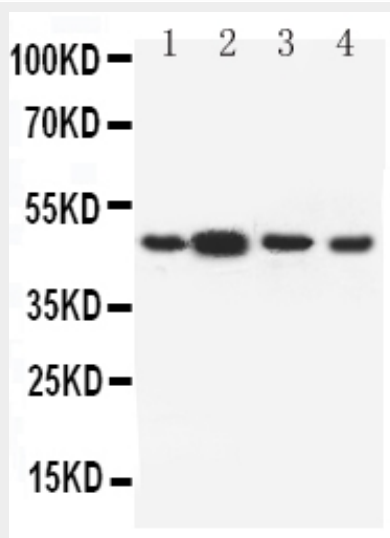
Provided below are standard protocols that you may find useful for product applications.

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

Anti-Dopamine Receptor D3 Antibody - Images



Anti-Dopamine Receptor D3 antibody, ABO10898, IHC(P)IHC(P): Rat Brain Tissue



Anti-Dopamine Receptor D3 antibody, ABO10898, Western blotting
Lane 1: Rat Testis Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: U87 Cell Lysate
Lane 4: HELA Cell Lysate

Anti-Dopamine Receptor D3 Antibody - Background

DRD3 is a dopamine receptor that differs in its pharmacology and signaling system from the D1 and D2 receptors and represents both an autoreceptor and a postsynaptic receptor. DRD3 is localized to limbic areas of the brain, which are associated with cognitive, emotional, and endocrine functions. The DRD3 gene, which is mapped to chromosome 3, is like the DRD2 gene but unlike most other members of this superfamily and it contains introns, 5 in number. The position of 2 of the introns corresponds to that of introns in DRD2. The D3 receptor appeared to mediate some of the effects of antipsychotic drugs and drugs used in the treatment of Parkinson disease, which were previously thought to interact only with D2 receptors.