**Product Name: D4DR Rabbit Polyclonal Antibody**
**Catalog #: APRab09770**
For research use only.

## Summary

| | |
|---|---|
| **Description** | Rabbit polyclonal Antibody |
| **Host** | Rabbit |
| **Application** | WB,ICC/IF,ELISA |
| **Reactivity** | Human,Mouse,Rat |
| **Conjugation** | Unconjugated |
| **Modification** | Unmodified |
| **Isotype** | IgG |
| **Clonality** | Polyclonal |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **Storage** | Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles. |
| **Shipping** | Ice bags |
| **Buffer** | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| **Purification** | Affinity purification |

## Application

| | |
|---|---|
| **Dilution Ratio** | WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000 |
| **Molecular Weight** | 48kDa |

## Antigen Information

| | |
|---|---|
| **Gene Name** | DRD4 |
| **Alternative Names** | DRD4; D(4) dopamine receptor; D(2C) dopamine receptor; Dopamine D4 receptor |
| **Gene ID** | 1815.0 |
| **SwissProt ID** | P21917 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human DRD4. AA range:355-404 |

## Background

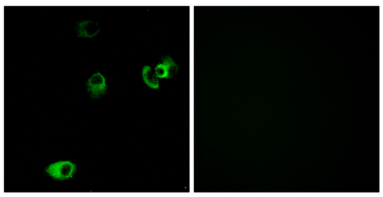
This gene encodes the D4 subtype of the dopamine receptor. The D4 subtype is a G-protein coupled receptor which inhibits

adenylyl cyclase. It is a target for drugs which treat schizophrenia and Parkinson disease. Mutations in this gene have been associated with various behavioral phenotypes, including autonomic nervous system dysfunction, attention deficit/hyperactivity disorder, and the personality trait of novelty seeking. This gene contains a polymorphic number (2-10 copies) of tandem 48 nt repeats; the sequence shown contains four repeats. [provided by RefSeq, Jul 2008],function: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.,polymorphism:The number of repeats of 16 amino acids in the third cytoplasmic loop is highly polymorphic and varies among different alleles. Alleles corresponding in size to a 2 (D4.2), 3 (D4.3), 4 (D4.4), 5 (D4.5), 6 (D4.6), 7 (D4.7) and 9 (D4.9) repeats have been described. The sequence shown is that of allele D4.7. The polymorphic repeat sequence has little influence on DRD4-binding profiles and might not be essential for G protein interaction.,similarity:Belongs to the G-protein coupled receptor 1 family.,subunit:Interacts with CLIC6 (By similarity) and GPRASP1.,

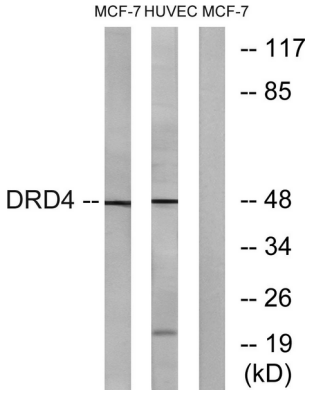
## Research Area

Neuroactive ligand-receptor interaction;

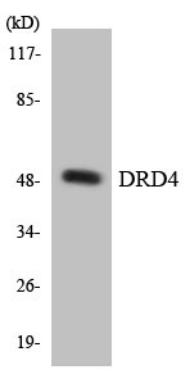
## Image Data



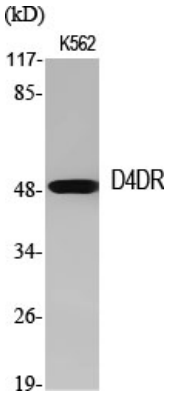
Immunofluorescence analysis of MCF7 cells, using DRD4 Antibody. The picture on the right is blocked with the synthesized peptide.



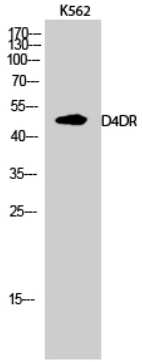

Western blot analysis of lysates from MCF-7 and HUVEC cells, using DRD4 Antibody. The lane on the right is blocked with the synthesized peptide.




Western blot analysis of the lysates from RAW264.7cells using DRD4 antibody.




Western Blot analysis of various cells using D4DR Polyclonal Antibody




Western Blot analysis of K562 cells using D4DR Polyclonal Antibody