

**D4DR rabbit pAb****Cat#: orb765012 (Manual)**

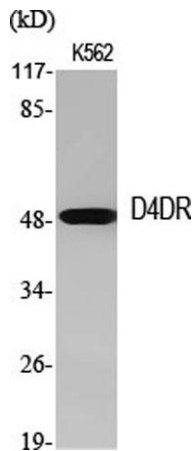
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	D4DR rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/40000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human DRD4. AA range:355-404
<b>Specificity</b>	D4DR Polyclonal Antibody detects endogenous levels of D4DR protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	D(4) dopamine receptor
<b>Gene Name</b>	DRD4
<b>Cellular localization</b>	Cell membrane ; Multi-pass membrane protein .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

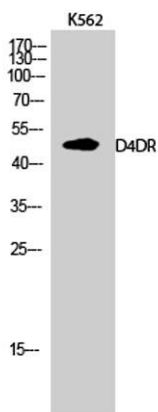
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	48kD
<b>Human Gene ID</b>	1815
<b>Human Swiss-Prot Number</b>	P21917
<b>Alternative Names</b>	DRD4; D(4) dopamine receptor; D(2C) dopamine receptor; Dopamine D4 receptor

### Background

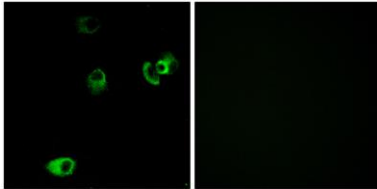
This gene encodes the D4 subtype of the dopamine receptor. The D4 subtype is a G-protein coupled receptor which inhibits adenylyl cyclase. It is a target for drugs which treat schizophrenia and Parkinson disease. Mutations in this gene have been associated with various behavioral phenotypes, including 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],



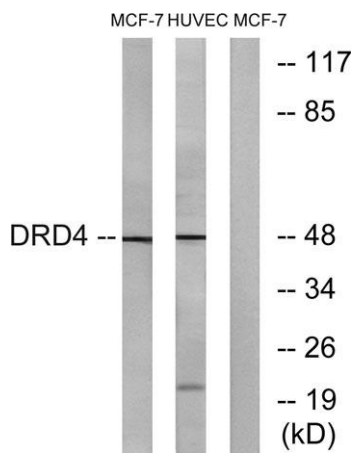
Western Blot analysis of various cells using D4DR Polyclonal Antibody



Western Blot analysis of K562 cells using D4DR Polyclonal Antibody



**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.**