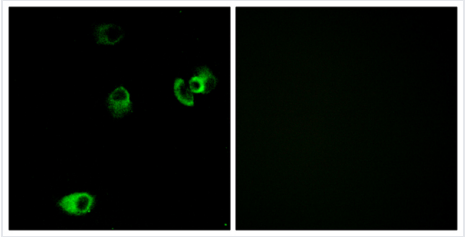
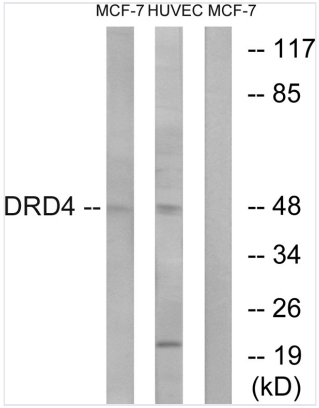
DRD4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DRD4, Polyclonal Antibody
Full Product Name	DRD4 Antibody
Product Gene Name	anti-DRD4 antibody
Product Synonym Names	D(4) dopamine receptor; Dopamine D4 receptor; D(2C) dopamine receptor; DRD4
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	DRD4 Antibody detects endogenous levels of total DRD4 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	48 kDa
OMIM	L12398 mRNA
3D Structure	ModBase 3D Structure for P21917
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human DRD4.
Immunogen Range	355-404
Applications Tested/Suitable for anti-DRD4 antibody	Western Blot (WB), Immunofluorescence (IF), ELISA (EIA)
Application Notes for anti-DRD4 antibody	WB: 1:500~1:1000 IF: 1:100~1:500 ELISA: 1:40000
Related Product Information for anti-DRD4 antibody	MBS9507900 is an antibody targeting DRD4. Also known as DRD4 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-DRD4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Immunofluorescence (IF) of anti-DRD4 antibody
Immunofluorescence analysis of MCF7 cells, using DRD4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot (WB) of anti-DRD4 antibody
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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DRD4. It may not necessarily be applicable to this product.

NCBI GI #	32483397
NCBI GeneID	1815
NCBI Accession #	NP_000788.2
UniProt Primary Accession #	P21917
UniProt Secondary Accession #	Q7Z7Q5; Q8NGM5; B0M0J7
UniProt Related Accession #	P21917
GenBank Nucleotide #	NM_000797.3
NCBI Official Full Name	D(4) dopamine receptor
NCBI Official Synonym Full Names	dopamine receptor D4
NCBI Official Symbol	DRD4
NCBI Official Synonym Symbols	D4DR
UniProt Protein Name	D(4) dopamine receptor
UniProt Synonym Protein Names	D(2C) dopamine receptor; Dopamine D4 receptor
Protein Family	D(4) dopamine receptor
UniProt Gene Name	DRD4
NCBI Protein Information	D(4) dopamine receptor
NCBI Summary for DRD4	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]
UniProt Comments for DRD4	Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Activated by dopamine, but also by epinephrine and norepinephrine, and by numerous synthetic agonists and drugs (PubMed:9003072, PubMed:16423344, PubMed:27659709, PubMed:29051383). Agonist binding triggers signaling via G proteins that inhibit adenylyl cyclase (PubMed:7512953, PubMed:7643093, PubMed:16423344, PubMed:27659709, PubMed:29051383). Modulates the circadian rhythm of contrast sensitivity by regulating the rhythmic expression of NPAS2 in the retinal ganglion cells ().

Research Articles on DRD4	**1.** The neurotransmitter dopamine is linked to brain areas associated with reward, motivation, and attention, and common dopaminergic variants, DRD$ and DRD2 have been associated with attention difficulties.
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