



Rabbit Anti-Dopamine D4 receptor antibody

SL1746R

Product Name:	Dopamine D4 receptor
Chinese Name:	多巴胺受体D4抗体
Alias:	DRD4; DRD4 receptor; D4 dopamine receptor; DRD4 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	41(mo/ rat); 51(kDa)
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DRD4:151-250/467
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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.DRD4 expression has been reported in various

regions of the brain as well as in adrenal gland, artery, eye, heart, kidney, placenta, spinal cord, testis, and vas deferens.

Function:

Dopamine receptor responsible for neuronal signaling in the mesolimbic system of the brain, an area of the brain that regulates emotion and complex behavior. Its activity is mediated by G proteins which inhibit adenylyl cyclase.

Subunit:

Forms homo- and heterooligomers with DRD2. D4.7 allele exhibits higher affinity for homodimers compared to DRD2 heterodimers, while alleles D4.2. and 4.4 have similar affinities for both. The interaction with DRD2 may modulate agonist-induced downstream signaling. Interacts with CLIC6 (By similarity) and GPRASP1. May interact with ADORA2A. Interacts with KLHL12.

Subcellular Location:

Cell membrane; Multi-pass membrane protein.

Post-translational modifications:

Polyubiquitinated by the BCR(KLHL12) E3 ubiquitin ligase complex: polyubiquitination does not lead to degradation of DRD4 protein.

Similarity:

Belongs to the G-protein coupled receptor 1 family.

SWISS:

P21917

Gene ID:

1815

Database links:

[Entrez Gene: 1815](#)Human

[Entrez Gene: 13491](#)Mouse

[Omim: 126452](#)Human

[SwissProt: P21917](#)Human

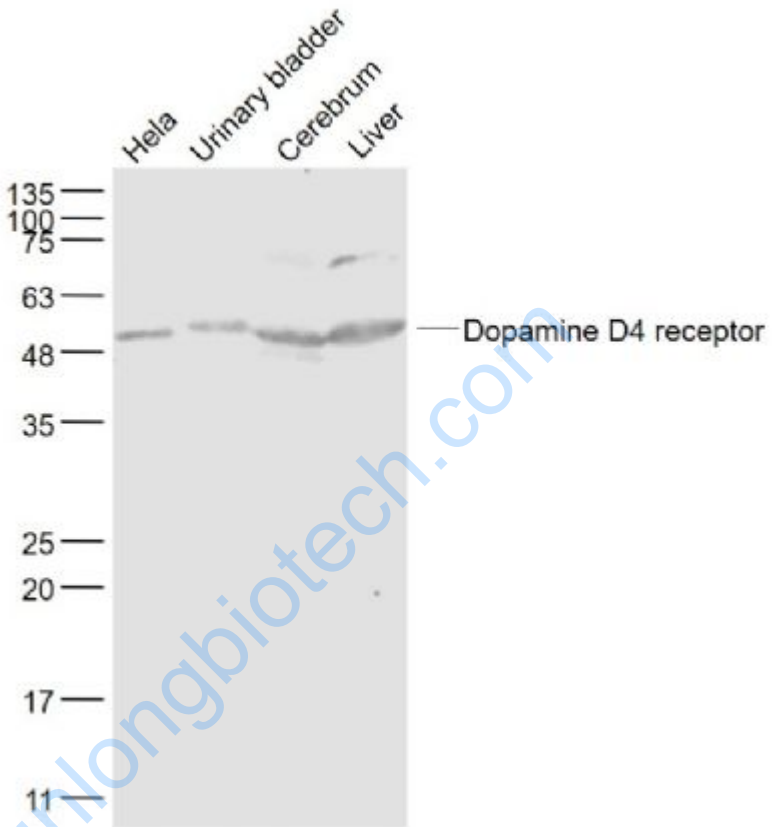
[SwissProt: P51436](#)Mouse

[Unigene: 99922](#)Human

[Unigene: 41075](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Sample:

HeLa(Human) Cell Lysate at 30 ug

Urinary bladder (Mouse) Lysate at 40 ug

Cerebrum (Mouse) Lysate at 40 ug

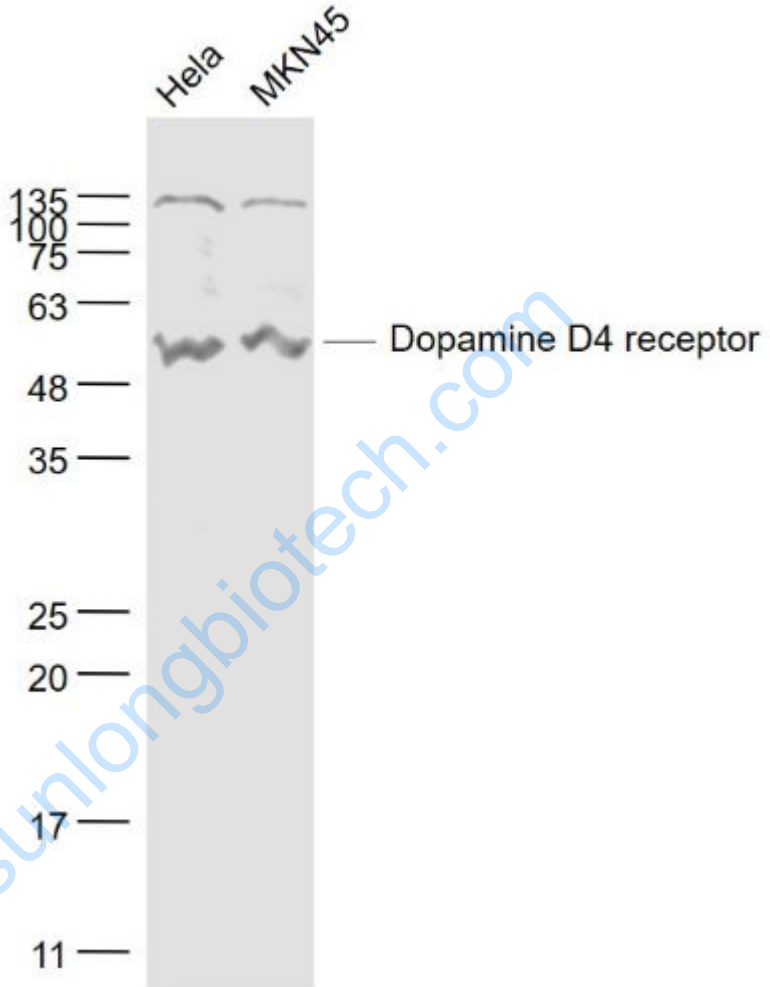
Liver (Mouse) Lysate at 40 ug

Primary: Anti- Dopamine D4 receptor (SL1746R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 41/51 kD

Observed band size: 51 kD



Sample:

A549(Human) Cell Lysate at 30 ug

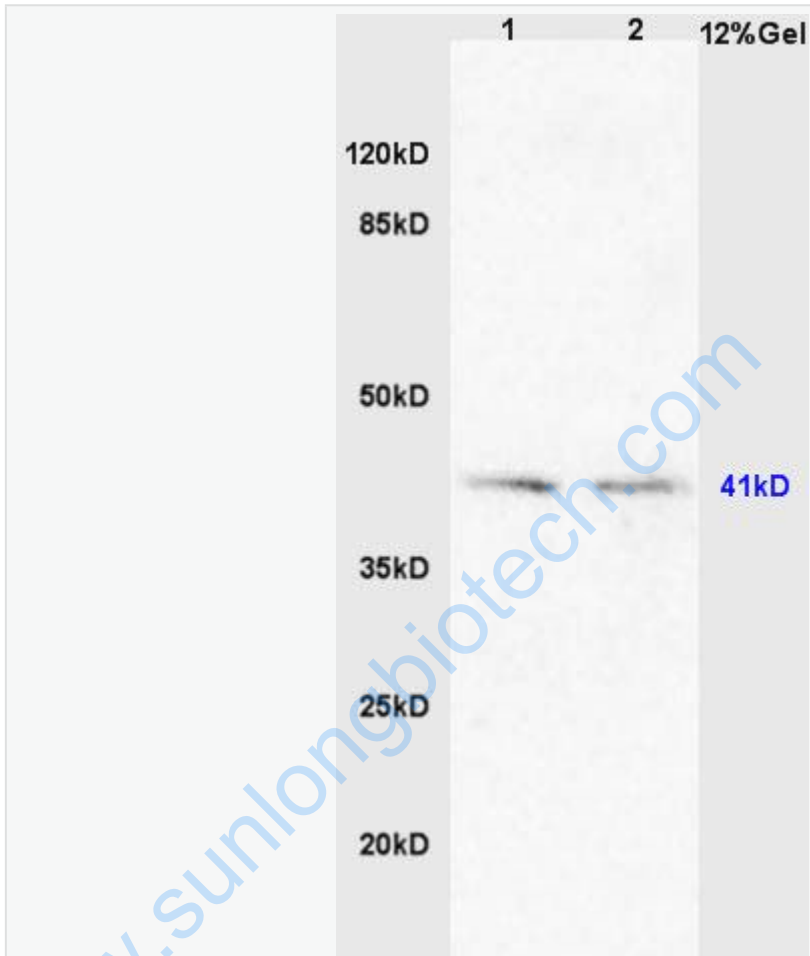
MKN45(Human) Cell Lysate at 30 ug

Primary: Anti- Dopamine D4 receptor (SL1746R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 51 kD

Observed band size: 53 kD



Sample:

Lane1: Brain(Mouse) Lysate at 30 ug

Lane2: Liver(Mouse) Lysate at 30 ug

Primary: Anti-DRD4(SL1746R) at 1:200 dilution;

Secondary: HRP conjugated Goat Anti-Rabbit IgG(SL1746R) at 1: 3000 dilution;

Predicted band size : 41kD

Observed band size : 41kD

