

## D1DR Polyclonal Antibody

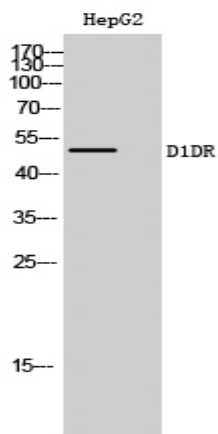
<b>Catalog No :</b>	YT1277
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	D1DR
<b>Fields :</b>	>>Calcium signaling pathway;>>cAMP signaling pathway;>>Neuroactive ligand-receptor interaction;>>Gap junction;>>Dopaminergic synapse;>>Parkinson disease;>>Cocaine addiction;>>Amphetamine addiction;>>Morphine addiction;>>Alcoholism
<b>Gene Name :</b>	DRD1
<b>Protein Name :</b>	D(1A) dopamine receptor
<b>Human Gene Id :</b>	1812
<b>Human Swiss Prot No :</b>	P21728
<b>Mouse Gene Id :</b>	13488
<b>Mouse Swiss Prot No :</b>	Q61616
<b>Rat Gene Id :</b>	24316
<b>Rat Swiss Prot No :</b>	P18901
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human DRD1. AA range:135-184
<b>Specificity :</b>	D1DR Polyclonal Antibody detects endogenous levels of D1DR protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG

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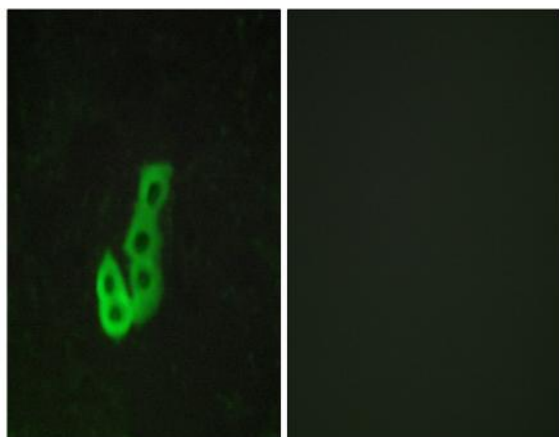
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:5000. Not yet tested in other applications.
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	50kD
<b>Cell Pathway :</b>	Calcium;Neuroactive ligand-receptor interaction;Gap junction;
<b>Background :</b>	This gene encodes the D1 subtype of the dopamine receptor. The D1 subtype is the most abundant dopamine receptor in the central nervous system. This G-protein coupled receptor stimulates adenylyl cyclase and activates cyclic AMP-dependent protein kinases. D1 receptors regulate neuronal growth and development, mediate some behavioral responses, and modulate dopamine receptor D2-mediated events. Alternate transcription initiation sites result in two transcript variants of this gene. [provided by RefSeq, Jul 2008],
<b>Function :</b>	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 activate adenylyl cyclase.,similarity:Belongs to the G-protein coupled receptor 1 family.,subcellular location:Transport from the endoplasmic reticulum to the cell surface is regulated by interaction with DNAJC14.,subunit:Interacts with DNAJC14 via its C-terminus (By similarity). Interacts with DRD1IP.,tissue specificity:Detected in caudate, nucleus accumbens and in the olfactory tubercle.,
<b>Subcellular Location :</b>	Cell membrane ; Multi-pass membrane protein . Endoplasmic reticulum membrane ; Multi-pass membrane protein . Cell projection, dendrite . Cell projection, dendritic spine . Transport from the endoplasmic reticulum to the cell surface is regulated by interaction with DNAJC14. .
<b>Expression :</b>	Detected in caudate, nucleus accumbens and in the olfactory tubercle.

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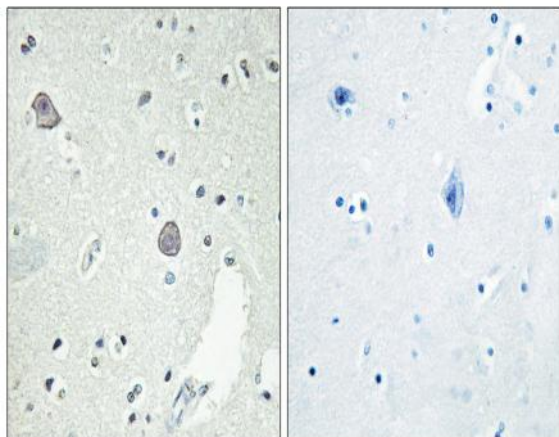
## Products Images



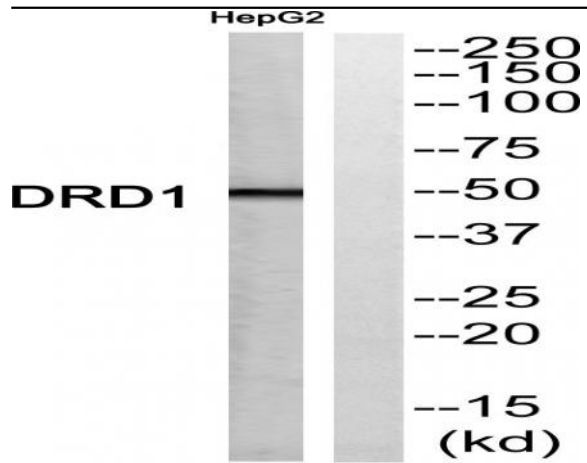
Western Blot analysis of HepG2 cells using D1DR Polyclonal Antibody



Immunofluorescence analysis of MCF7 cells, using DRD1 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using DRD1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of DRD1 Antibody. The lane on the right is blocked with the DRD1 peptide.