



D1DR Polyclonal Antibody

Catalog No	BYab-12707
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	DRD1
Protein Name	D(1A) dopamine receptor
Immunogen	The antiserum was produced against synthesized peptide derived from human DRD1. AA range:135-184
Specificity	D1DR Polyclonal Antibody detects endogenous levels of D1DR protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DRD1; D(1A) dopamine receptor; Dopamine D1 receptor
Observed Band	50kD
Cell Pathway	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. .
Tissue Specificity	Detected in caudate, nucleus accumbens and in the olfactory tubercle.
Function	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.,

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Background

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],

matters needing attention

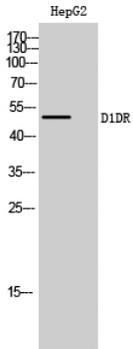
Avoid repeated freezing and thawing!

Usage suggestions

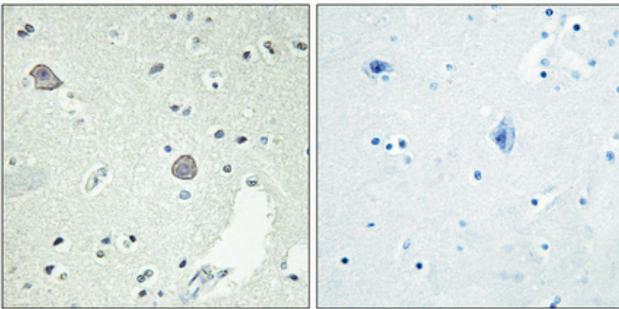
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



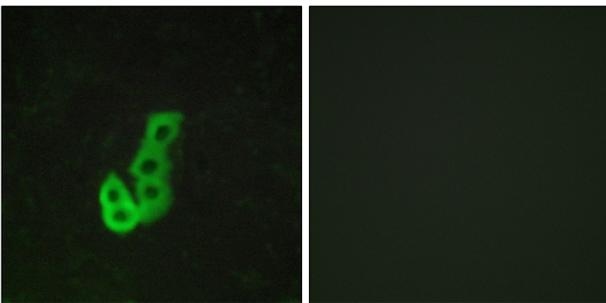
Products Images



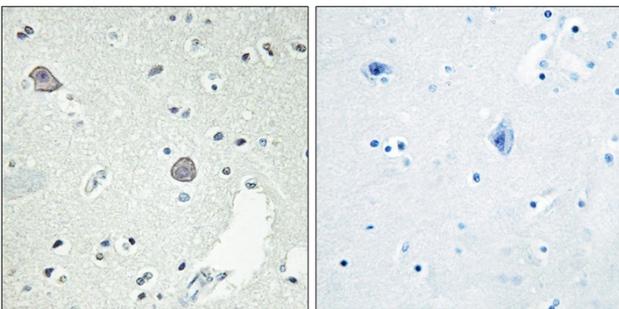
Western Blot analysis of HepG2 cells using D1DR Polyclonal Antibody



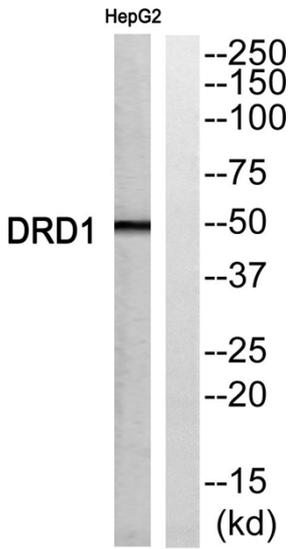
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA, pH8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



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.