

Rabbit DRD1 Polyclonal Antibody | anti-DRD1 antibody

DRD1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326838	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DRD1; Polyclonal Antibody; DRD1 Antibody; D(1A) dopamine receptor; D1A dopamine receptor; DADR; Dopamine D1 receptor; dopamine receptor D1; DR D1; DR D1A; DRD 1; DRD 1A; DRD1_HUMAN; DRD1A; anti-DRD1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	DRD1 antibody detects endogenous levels of total DRD1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	446
Applicable Applications for anti-DRD1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide of human DRD1
Subcellular Location	Cell Membrane. Endoplasmic Reticulum Membrane. 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.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Dog
Similarity	Pig (100%), Bovine (90%), Sheep (90%), Dog (90%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA326838 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA326838 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts of HeLa, using DRD1antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DRD1 antibody

Description: 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.

Function: Dopamine receptor whose activity is mediated by G proteins which activate adenylyl cyclase.

Subunit Structure: Interacts with DNAJC14 via its C-terminus (By similarity). Interacts with DRD1IP.

Similarity: Belongs to the G-protein coupled receptor 1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503383
NCBI GeneID	1812
NCBI Accession #	NP_000785.1
NCBI GenBank Nucleotide #	NM_000794.4
UniProt Accession #	P21728; Q4QJRJ0; B2RA44
Molecular Weight	Observed: 49 kDa Predicted: 50 kDa
NCBI Official Full Name	D(1A) dopamine receptor
NCBI Official Synonym Full Names	dopamine receptor D1
NCBI Official Symbol	DRD1
NCBI Official Synonym Symbols	DADR; DRD1A
NCBI Protein Information	D(1A) dopamine receptor
UniProt Protein Name	D(1A) dopamine receptor
UniProt Gene Name	DRD1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

