

DRD1 Rabbit pAb

DRD1 Rabbit pAb
Catalog # AP52160

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P21728
Reactivity	Rat, Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49293
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DRD1
Epitope Specificity	101-200/446
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	1812
Other Names	D(1A) dopamine receptor, Dopamine D1 receptor, DRD1
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 µg/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	DRD1
Function	Dopamine receptor whose activity is mediated by G proteins which activate adenylyl cyclase. Forms heterotetramers with DRD3 to potentiate beta-arrestin recruitment and mediate locomotor activity.
Cellular Location	Cell membrane {ECO:0000250 UniProtKB:P18901}; Multi-pass membrane protein {ECO:0000250 UniProtKB:P18901}. Endoplasmic reticulum membrane {ECO:0000250 UniProtKB:P18901}; Multi-pass membrane protein {ECO:0000250 UniProtKB:P18901}. Cell projection, cilium membrane; Multi-pass membrane protein. Cell projection, dendrite {ECO:0000250 UniProtKB:Q61616}. Cell projection, dendritic spine {ECO:0000250 UniProtKB:Q61616}. Note=Transport from the endoplasmic reticulum to the cell surface is regulated by interaction with DNAJC14 {ECO:0000250 UniProtKB:P18901}
Tissue Location	Detected in caudate, nucleus accumbens and in the olfactory tubercle.

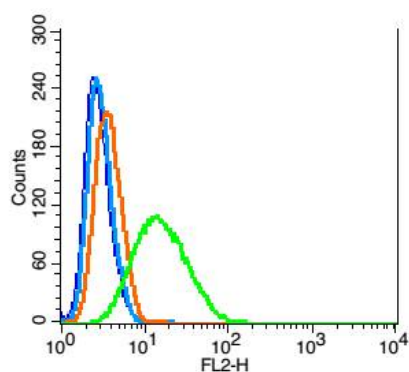
Background

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

References

Dearry A.,et al.Nature 347:72-76(1990).
Zhou Q.-Y.,et al.Nature 347:76-80(1990).
Sunahara R.K.,et al.Nature 347:80-83(1990).
Ohara K.,et al.Neuropsychopharmacology 8:131-135(1993).
Suwa M.,et al.Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

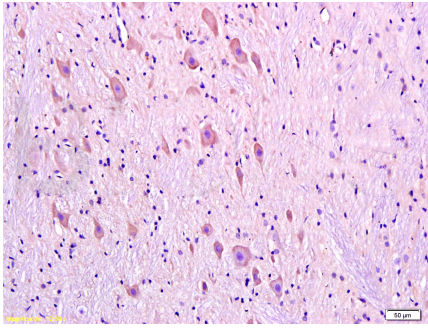
Images



Blank control: Hela(blue). Primary Antibody:Rabbit Anti-Dopamine Receptor D1 antibody(AP52160), Dilution: 1ug in 100 ul 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions ; Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice. Antibody (AP52160, 1ug /1x10⁶ cells) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 10% goat serum (15 min) to block non-specific protein-protein interactions. Then the Goat Anti-rabbit IgG/PE antibody was added into the blocking buffer mentioned above to react with the primary antibody of AP52160 at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-DRD1 Polyclonal Antibody, Unconjugated(AP52160) 1:300, overnight at 4 °C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.