

DRD1 Rabbit pAb

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Catalog # AP54292

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q61616
Reactivity	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49612
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Dopamine Receptor D1
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	13488
Other Names	D(1A) dopamine receptor, Dopamine D1 receptor, Drd1, Drd1a, Gpcr15
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.

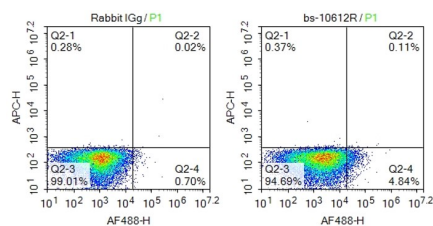
Protein Information

Name	Drd1
Synonyms	Drd1a, Gpcr15
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 (PubMed: 40523512).
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 {ECO:0000250 UniProtKB:P21728}; Multi-pass membrane protein. Cell projection, dendrite Cell projection, dendritic spine Note=Transport from the endoplasmic reticulum to the cell surface is regulated by interaction with DNAJC14. {ECO:0000250 UniProtKB:P18901}

Background

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Images



Blank control: Mouse brain.

Primary Antibody (green line): Rabbit Anti-Dopamine Receptor D1 antibody (AP54292)

Dilution: 2 µg /10⁶ cells;

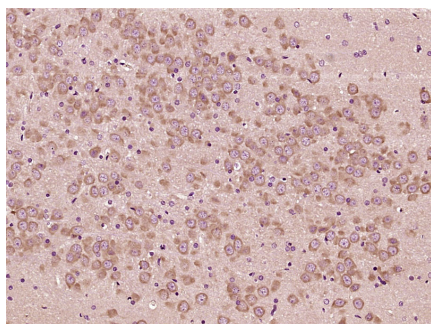
Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-AF488

Dilution: 1 µg /test.

Protocol

The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Dopamine Receptor D1) Polyclonal Antibody, Unconjugated (AP54292) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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