

Anti-Dopamine Receptor D1 Antibody

Catalog # AP51944

Product Information

Application	WB, IHC, IF/IC
Primary Accession	P21728
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49293

Additional Information

Gene ID	1812
Other Names	D(1A) dopamine receptor; Dopamine D1 receptor
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Dopamine Receptor D1. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

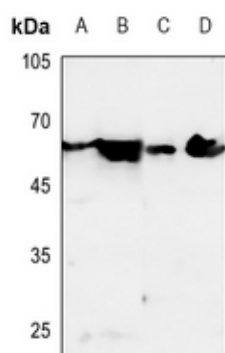
Protein Information

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.

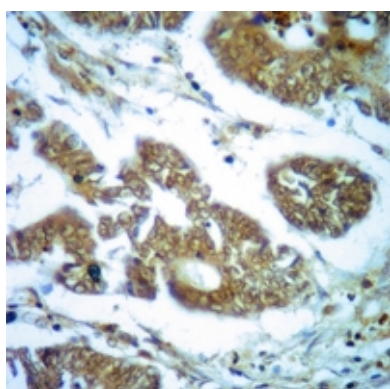
References

Deary 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



Western blot analysis of Dopamine Receptor D1 expression in A549 (A), U2OS (B), mouse kidney (C), rat liver (D) whole cell lysates. (Predicted band size: 49 kD; Observed band size: 60 kD)



Immunohistochemical analysis of Dopamine Receptor D1 staining in human colorectal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of Dopamine Receptor D1 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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