

Anti-D(1A) dopamine receptor (DRD1) Antibody

RT1176



Product Type:	Goat polyclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB, IP, IF, IHC-P
Molecular Wt:	74kDa

Description: The members of the G protein coupled receptor family are distinguished by their slow transmitting response to ligand binding. These transmembrane proteins include the adrenergic, serotonin and dopamine receptors. The effect of the signaling molecule can be excitatory or inhibitory depending on the type of receptor to which it binds. -adrenergic receptor binds to adrenaline activates adenylyl cyclase, while 2-adrenergic receptor binds to adrenaline inhibits adenylyl cyclase. The dopamine receptors are divided into two classes, D1 and D2, which differ in their functional characteristics in that D1 receptors stimulate adenylyl cyclase while D2 receptors inhibit adenylyl cyclase activity. Five different subtypes of dopamine receptor have been described to date. D1DR and D5DR belong to the D1 subclass, while D2DR, D3DR and D4DR belong to the D2 subclass.

Immunogen:	peptide
Positive control:	Hela, KNRK, human pancreas tissue.
Subcellular location:	Cell membrane, Endoplasmic reticulum membrane
Database links:	SwissProt: P21728 Human

Recommended Dilutions:

WB	1:100-1:1,000
IP	1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)
IF	1:50-1:500
IHC-P	1:50-1:500

Storage Buffer: 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Storage Instruction: Store at +4°C

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

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Images

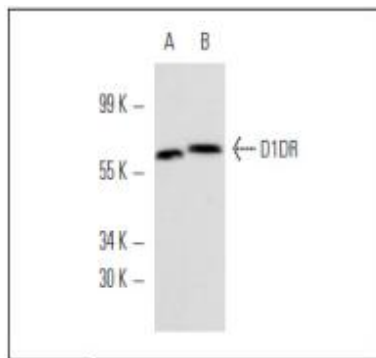


Fig1: Western blot analysis of D1DR expression in KNRK (A) and HeLa (B) whole cell lysates.

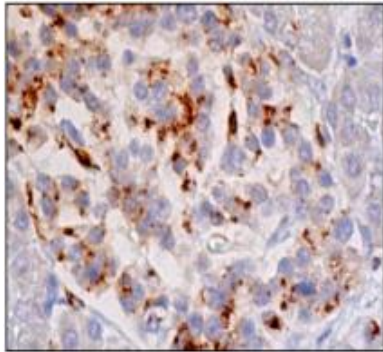


Fig2: Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing cytoplasmic staining of Islet of Langerhans.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Barak, L.S., et al. 1995. The conserved seven-transmembrane sequence NP(X)₂,₃Y of the G protein-coupled receptor superfamily regulates multiple properties of the β 2-adrenergic receptor. *Biochem.* 34: 15407-15414.
2. Senogles, S.E. 1994. The D2 dopamine receptor isoforms signal through distinct Gi α proteins to inhibit adenylyl cyclase. A study with site-directed mutant Gi α proteins. *J. Biol. Chem.* 269: 23120-23127.

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