SunLong Biotech Co.,LTD
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Rabbit Anti-DRD1 antibody

SL10610R

Product Name	DRD1
Chinese Name	多巴胺受体 D1 抗体
Alias	dopamine D1 receptor; D(1A) dopamine receptor; D1A dopamine receptor; Dopamine D1Receptors; D1DR; DADR; Dopamine Receptor D1; DR D1; DR D1A; DRD 1; DRD1 receptor; DRD1A; DRD1_HUMAN; DRD 1A.
Research Area	Tumour immunology Neurobiology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human, Rat,
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	50kDa
Detection molecular weight	65-80 kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Dopamine Receptor D1: 11-100/446 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.

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Storage Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.

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

PubMed PubMed

Product Detail

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]

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

Subunit:
Interacts with DNAJC14 via its C-terminus. Interacts with DRD1IP.

Subcellular Location:
Cell membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein.

Tissue Specificity:
Detected in caudate, nucleus accumbens and in the olfactory tubercle.

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

SWISS:
P21728

Gene ID:
1812

Database links:

Entrez Gene: 1812 Human

Entrez Gene: 13488 Mouse

Entrez Gene: 24316 Rat

Omim: 126449 Human

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SwissProt: P21728 Human

SwissProt: Q61616 Mouse

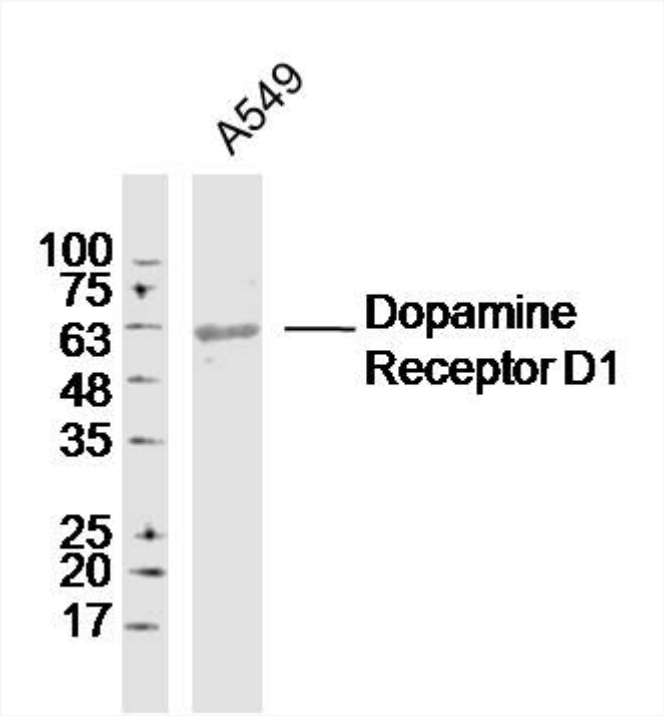
SwissProt: P18901 Rat

Unigene: 2624 Human

Unigene: 54161 Mouse

Unigene: 24039 Rat

Product Picture



Sample:A549 Cell(Human)Lysate at 40 ug

Primary: Anti-Dopamine Receptor D1(SL10610R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50kD

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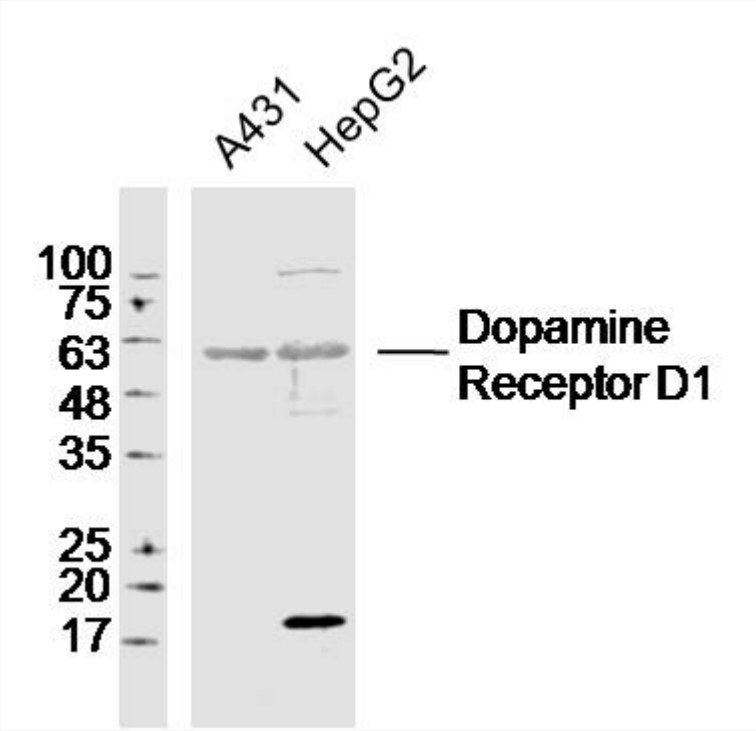
Observed band size: 60kD



Sample:

A431 Cell(Human)Lysate at 40 ug

HepG2 Cell (Human) Lysate at 40 ug

Primary: Anti-Dopamine Receptor D1(SL10610R)at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 50kD

Observed band size: 60kD

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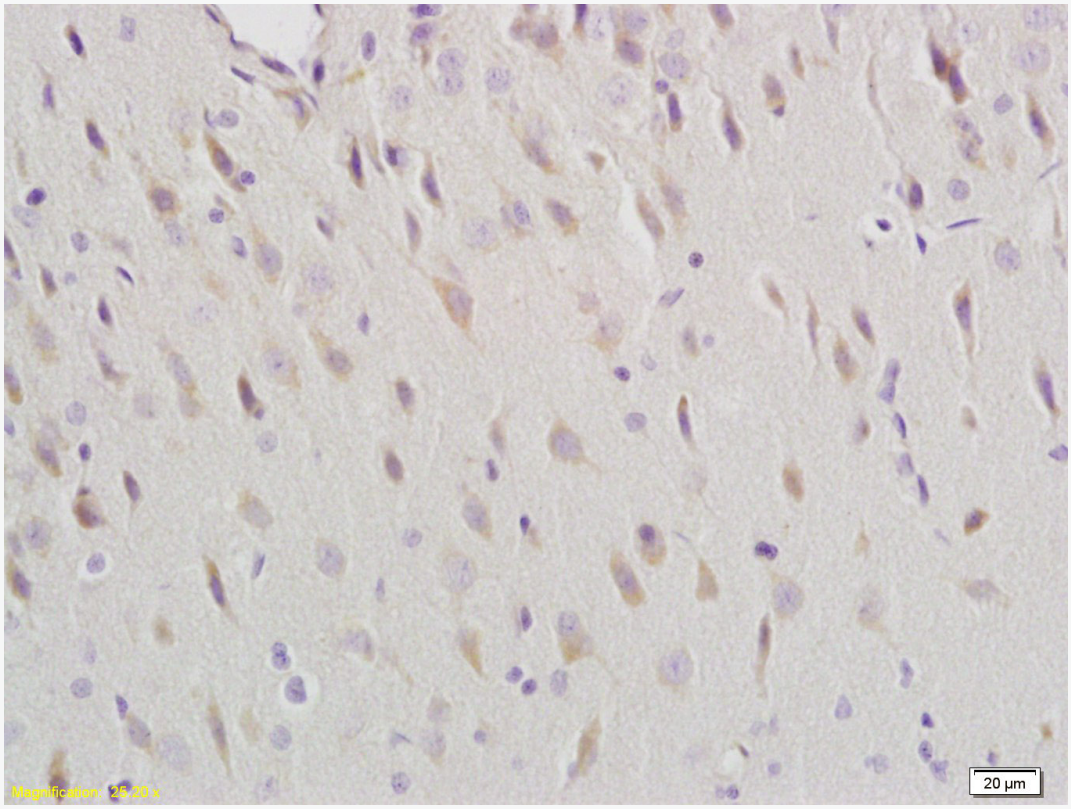

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-Dopamine Receptor D1 Polyclonal Antibody, Unconjugated(SL10610R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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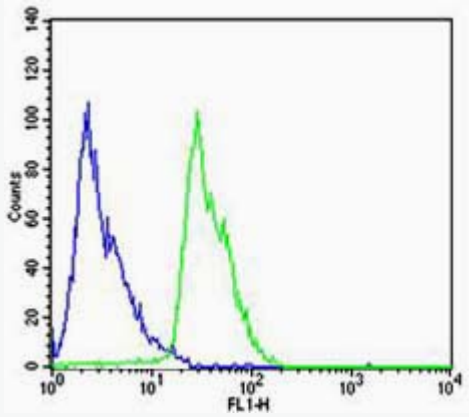

Cell: SH-SY5Y

Concentration:1:100

Host/Isotype:Rabbit/IgG

Flow cytometric analysis of Rabbit IgG isotype control (Cat#: SL10610R) on SH-SY5Y(green) compared with control in the absence of primary antibody (blue) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .