SunLong Biotech Co.,LTD
Tel: 0086-571- 56623320 Fax:0086-571- 56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

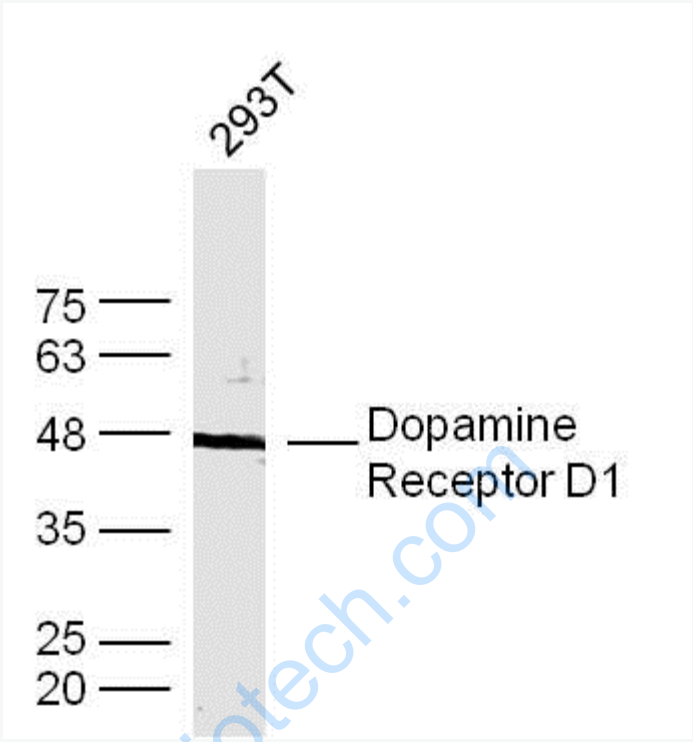
Rabbit Anti-Dopamine Receptor D1 antibody

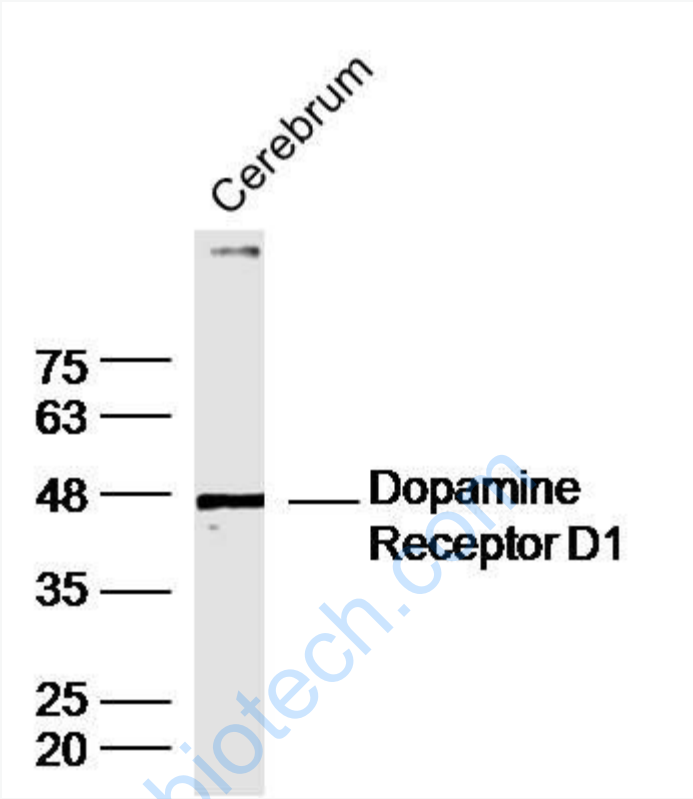
SL1007R

Product Name:	Dopamine Receptor D1
Chinese Name:	多巴胺受体D1抗体
Alias:	DRD1; 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; DRD1; DRD1A; DRD1_HUMAN; D(1A) dopamine receptor; DRD 1A; DRD1.
文献引用 PubMed :	**Specific References(3)**|SL1007R has been referenced in 3 publications. **[IF=2.35]**Xu, Jiao-jiao, et al. "Dopamine D1 receptor activation induces dehydroepiandrosterone sulfotransferase (SULT2A1) in HepG2 cells." Acta Pharmacologica Sinica (2014).**WB;Human**. PubMed:24909515 **[IF=3.26]**Salgado, R., et al. "Perfluorooctane sulfonate (PFOS) exposure could modify the dopaminergic system in several limbic brain regions." Toxicology Letters(2015).**WB;Rat**. PubMed:26529483 **[IF=8.46]**Zhang, Q. B., et al. "Moderate swimming suppressed the growth and metastasis of the transplanted liver cancer in mice model: with reference to nervous system." Oncogene (2016).**WB;Human**. PubMed:26686088
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1μg/TestICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair）

	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human DRD1:101-200/446<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
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 SwissProt: P21728 Human SwissProt: Q61616 Mouse SwissProt: P18901 Rat Unigene: 2624 Human Unigene: 54161 Mouse Unigene: 24039 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. 多巴胺受体D1在运动协调方面起重要作用，该受体的缺失对黑质多巴胺能神经元的影响程度虽没临床帕金森病(PD)严重，但仍可加速多巴胺能神经元发生退行性改变.该蛋白目前主要用于神经退行性改变的研究。

Picture:	 Sample: 293T Cell Lysate at 40 ug Primary: Anti- Dopamine Receptor D1 (SL1007R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution Predicted band size: 50 kD Observed band size: 48 kD



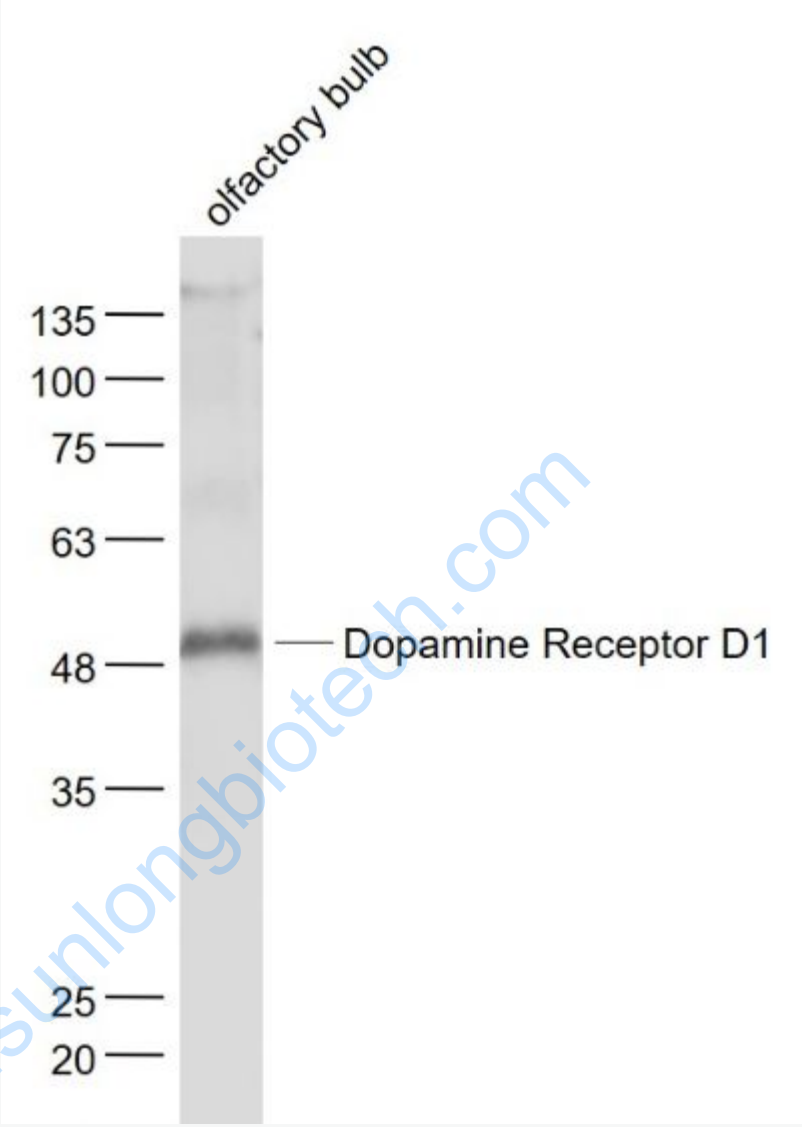
Sample: Cerebrum (Mouse)Lysate at 40 ug

Primary: Anti- Dopamine Receptor D1 (SL1007R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/10000 dilution

Predicted band size: 50 kD

Observed band size: 48 kD



Sample:

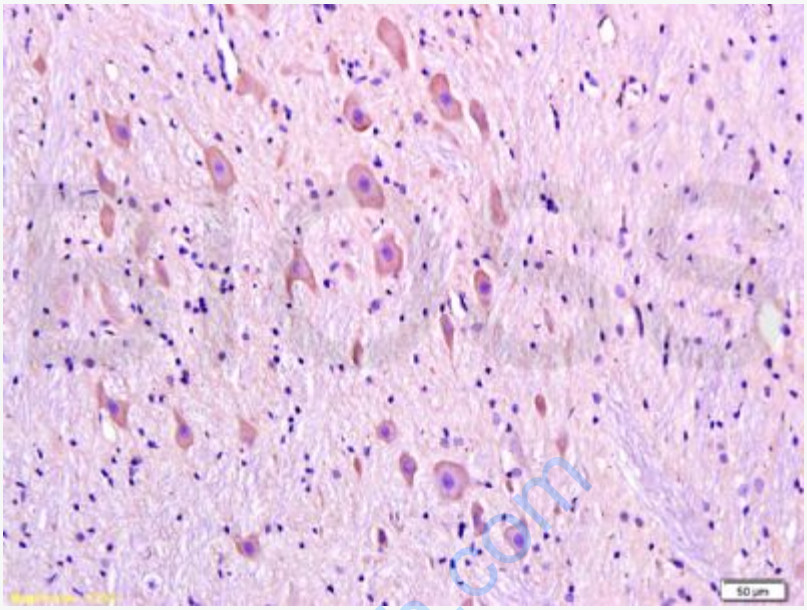
Olfactory bulb (Mouse) Lysate at 40 ug

Primary: Anti- Dopamine Receptor D1 (SL1007R) at 1/1000 dilution

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

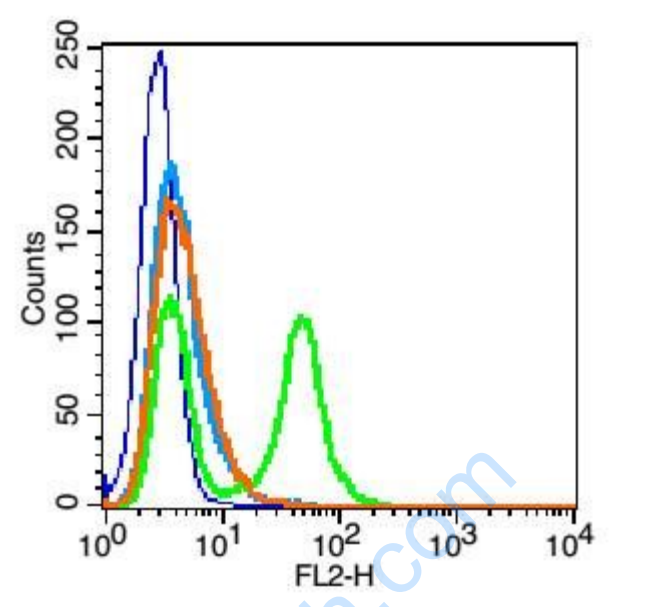
Predicted band size: 50 kD

Observed band size: 50 kD

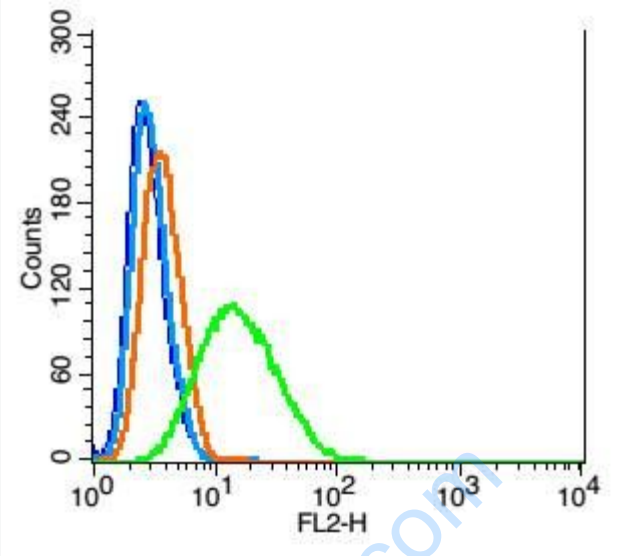


Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-DRD1 Polyclonal Antibody, Unconjugated(SL1007R) 1:300, overnight at 4∑C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: HUVEC cells(blue). Primary Antibody:Rabbit Anti-CD31 antibody(SL1007R), Dilution: 1μg in 100 μL 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) .Primary antibody (SL1007R) were incubated for 30 min on the ice, followed by 1 X PBS containing 0.5% BSA + 1 0% 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 at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed



Blank control: Hela(blue).

Primary Antibody:Rabbit Anti- Dopamine Receptor D1 antibody(SL1007R),

Dilution: 1レg in 100 レL 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 (SL1007R) 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 bs-1007R at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.