bs-1007R **[Primary Antibody]**

DRD1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1812 **SWISS:** P21728

Target: DRD1

Immunogen: KLH conjugated synthetic peptide derived from human DRD1: 101-200/446. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: 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]

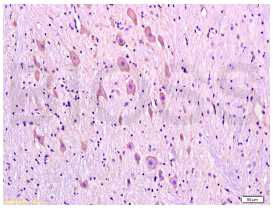
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1μg/Test)

Reactivity: Human, Rat (predicted: Mouse)

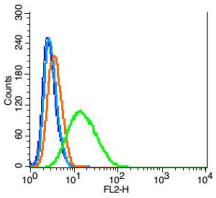
Predicted MW.: 50 kDa

Subcellular Location: Cell membrane ,Cytoplasm

VALIDATION IMAGES



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°C for 20 min; Incubation: Anti-DRD1 Polyclonal Antibody, Unconjugated(bs-1007R) 1:300, overnight at 4ΣC, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control: Hela(blue). Primary Antibody:Rabbit Anti- Dopamine Receptor D1 antibody(bs-1007R), Dilution: 1ug in 100 ul 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 (bs-1007R, 1ug /1x10^6 cells) 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.

SELECTED CITATIONS

- **[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. 26686088

- **[IF=6.6]** Fiona Limanaqi. et al. Dopamine Reduces SARS-CoV-2 Replication In Vitro through Downregulation of D2 Receptors and Upregulation of Type-I Interferons. CELLS-BASEL. 2022 Jan;11(10):1691 ICC ;Human. 35626728
- **[IF=5.108]** Yang K et al. Synaptic dopamine release is positively regulated by SNAP-25 that involves in benzo [a] pyrene-induced neurotoxicity. Chemosphere. 2019 Jul 15;237:124378. IHC,ICC,WB ;Rat. 31376700
- **[IF=3.6]** Abella Lina Maria Rayo. et al. Initial characterization of a transgenic mouse with overexpression of the human D1-dopamine receptor in the heart. N-S ARCH PHARMACOL. 2024 Jan;:1-21 WB ;Mouse. 38177456
- **[IF=4.181]** Bai L et al. m6A demethylase FTO regulates dopaminergic neurotransmission deficits caused by arsenite.Toxicol Sci. 2018 Oct 1;165(2):431-446. WB ;Mouse. 29982692