bs-1743R **[Primary Antibody]**

Dopamine D3 receptor Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 13490 **SWISS:** P30728

Target: Dopamine D3 receptor

Immunogen: KLH conjugated synthetic peptide derived from mouse DRD3: 352-446/446. < 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 is one of the five types (D1 to D5) of receptors for dopamine. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase. This receptor is expressed in phylogenetically older regions of the brain, suggesting that it plays a role in cognitive and emotional functions. It is a target for drugs which treat schizophrenia, drug addiction, and Parkinson disease. Alternative splicing of this gene results in multiple transcript variants that would encode different isoforms, although some variants may be subject to nonsense-mediated decay (NMD). Also known as: dopamine D3 receptor; 3 dopamine receptor; D; Dopamine receptor D3; DRD; ETM1; FET1.

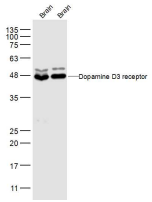
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:200-800)

Reactivity: Human, Mouse, Rat

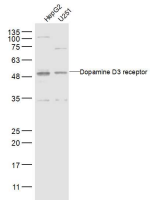
Predicted MW.: 44 kDa

Subcellular Location: Cell membrane ,Cytoplasm

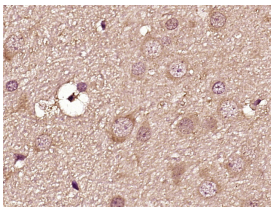
VALIDATION IMAGES



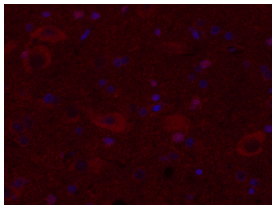
Sample: Brain (Mouse) Lysate at 40 ug Brain (Rat) Lysate at 40 ug Primary: Anti-Dopamine D3 receptor (bs-1743R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kD Observed band size: 48 kD



Sample: HepG2 Cell Lysate at 30 ug U251 Cell Lysate at 30 ug Primary: Anti-Dopamine D3 receptor (bs-1743R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 44 kD Observed band size: 48 kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Dopamine D3 receptor) Polyclonal Antibody, Unconjugated (bs-1743R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block

endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Dopamine D3 receptor) Polyclonal Antibody, Unconjugated (bs-1743R) at 1:400 overnight at 4°C, followed by a conjugated Goat Anti-Rabbit IgG antibody (bs-0295G-AF594) for 90 minutes, and DAPI for nuclei staining.

SELECTED CITATIONS

- **[IF=6.05]** Andrew Kisling. et al. Loss of Function in Dopamine D3 Receptor Attenuates Left Ventricular Cardiac Fibroblast Migration and Proliferation in vitro. Front Cardiovasc Med. 2021; 8: 732282 IF ;Mouse. 34708087
- **[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=4.831]** Shi L et al. Clioquinol improves motor and non-motor deficits in MPTP-induced monkey model of Parkinson's disease through AKT/mTOR pathway. Aging (Albany NY) . 2020 May 18;12(10):9515-9533. WB ;Monkey. 32424108
- **[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
- **[IF=4.432]** Ting Li. et al. Rotigotine-loaded microspheres exerts the antinociceptive effect via central dopaminergic system. Eur J Pharmacol. 2021 Nov;910:174443 WB ;Rat. 34464604