bs-1747R **[Primary Antibody]**

Dopamine D5 receptor Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 25195 **SWISS:** P25115

Target: Dopamine D5 receptor

Immunogen: KLH conjugated synthetic peptide derived from rat DRD5: 251-350/475.

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 activate adenylyl cyclase. This receptor is neuron specific, localized primarily within limbic regions of the brain. Defects in DRD5 are a cause of blepharospasm and may be a cause of schizophrenia.

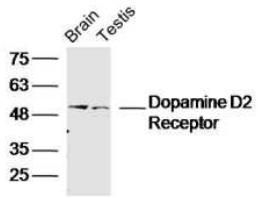
Applications: **WB** (1:500-2000)
Flow-Cyt (1μg /test)

Reactivity: Mouse, Rat
(predicted: Human)

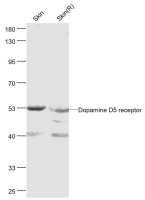
Predicted MW.: 53 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Brain (Mouse) Lysate at 40 ug Testis (Mouse) Lysate at 40 ug Primary: Anti- Dopamine D5 receptor (bs-1747R)at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 53kD Observed band size: 53kD



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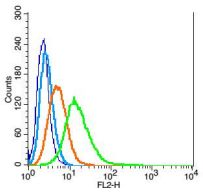

Blank control: RSC96(blue). Primary Antibody:Rabbit Anti- DRD5 antibody(bs-1747R), Dilution: 1μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange) ,used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA. Protocol The cells were fixed with 2% paraformaldehyde (10 min) . Antibody (bs-1747R, 1μg /1x10^6 cells) 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 of bs-1747R at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=11.685]** Kristine Elisabeth Eberhard. et al. Neurotransmitter and Neurotransmitter Receptor Expression in the Saccule of the Human Vestibular System. Prog Neurobiol. 2022 Jan;:102238 IHC ;Human. 35104536
- **[IF=8.101]** Linlin Meng. et al. Dopamine D1 receptor agonist alleviates acute lung injury via modulating inflammatory

responses in macrophages and barrier function in airway epithelial cells. FREE RADICAL BIO MED. 2023 Jun;202:2 IHC ;Mouse. 36965538

- **[IF=4.522]** Fujino S et al. Expression and function of dopamine in odontoblasts. J Cell Physiol. 2019 Oct 15. IHC,WB ;Rat. 31612496
- **[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=2.35]** Xu, Jiao-jiao, et al. "Dopamine D1 receptor activation induces dehydroepiandrosterone sulfotransferase (SULT2A1) in HepG2 cells." Acta Pharmacologica Sinica (2014). WB ;="Human". 24909515