

# Dopamine D5 receptor Rabbit pAb

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Catalog # AP52162

## Product Information

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| <b>Application</b>             | WB                                                                                                                                                                                                                                                                                                                                       |
| <b>Primary Accession</b>       | <a href="#">P25115</a>                                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity</b>              | Rat, Mouse                                                                                                                                                                                                                                                                                                                               |
| <b>Predicted</b>               | Human                                                                                                                                                                                                                                                                                                                                    |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                   |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                               |
| <b>Calculated MW</b>           | 52831                                                                                                                                                                                                                                                                                                                                    |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from rat DRD5                                                                                                                                                                                                                                                                                   |
| <b>Epitope Specificity</b>     | 251-350/475                                                                                                                                                                                                                                                                                                                              |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                           |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                        |
| <b>SUBCELLULAR LOCATION</b>    | Cell membrane; Multi-pass membrane protein.                                                                                                                                                                                                                                                                                              |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                |
| <b>Background Descriptions</b> | 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. |

## Additional Information

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| <b>Gene ID</b>     | 25195                                                                                                                                                                                           |
| <b>Other Names</b> | D(1B) dopamine receptor, D(5) dopamine receptor, Dopamine D5 receptor, Drd5                                                                                                                     |
| <b>Dilution</b>    | WB=1:500-2000,Flow-Cyt=1 µg /test                                                                                                                                                               |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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. |

## Protein Information

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| <b>Name</b> | Drd5 |
|-------------|------|

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|--------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Function</b>          | Dopamine receptor whose activity is mediated by G proteins which activate adenylyl cyclase.                   |
| <b>Cellular Location</b> | Cell membrane; Multi-pass membrane protein.                                                                   |
| <b>Tissue Location</b>   | Brain, in the lateral mammillary nuclei, the anterior pretectal nuclei, and several layers of the hippocampus |

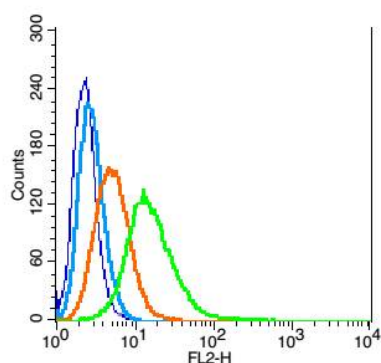
## Background

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## References

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 Grandy D.K.,et al.Proc. Natl. Acad. Sci. U.S.A. 88:9175-9179(1991).  
 Weinshank R.L.,et al.J. Biol. Chem. 266:22427-22435(1991).  
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 Ota T.,et al.Nat. Genet. 36:40-45(2004).

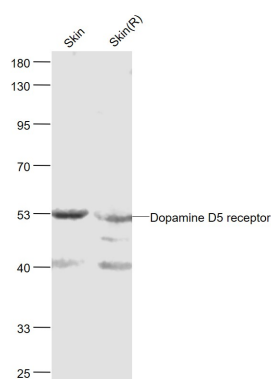
## Images



Blank control: RSC96(blue). Primary Antibody:Rabbit Anti-DRD5 antibody(AP52162), Dilution: 1 µg 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 (AP52162, 1 µg /1x10<sup>6</sup> 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 AP52162 at 1/200 dilution for 30 min on ice. Acquisition of 20,000 events was performed.



### Sample:

Skin(Mouse) Lysate at 40 ug  
 Skin(Rat) Lysate at 40 ug  
 Primary: Anti-Dopamine D5 receptor (AP52162) at 1/300 dilution  
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
 Predicted band size: 53 kD  
 Observed band size: 53 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.