

Datasheet for ABIN1048520  
**anti-DRD5 antibody (Extracellular Domain)**



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2 Images

## Overview

Quantity:	50 µg
Target:	DRD5
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DRD5 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 3rd extracellular domain of human DRD5 / Dopamine Receptor D5. Percent identity with other species by BLAST analysis: Human (100%), Gorilla (94%), Gibbon, Monkey (88%), Marmoset (81%).  Type of Immunogen: Synthetic peptide
Specificity:	Human DRD5 / Dopamine Receptor D5. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human (100%) Gorilla (94%) Gibbon, Monkey (88%) Marmoset (81%).
Purification:	Immunoaffinity purified

## Target Details

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Target: DRD5

Alternative Name: DRD5 / Dopamine Receptor D5 ([DRD5 Products](#))

Background: Name/Gene ID: DRD5  
Subfamily: Dopamine  
Family: GPCR

Synonyms: DRD5, D(5) dopamine receptor, D1beta dopamine receptor, D5 dopamine receptor, Dopamine 5 receptor, Dopamine receptor D5, DRD1B, D(1B) dopamine receptor, D1b dopamine receptor, D1b receptor, DBDR, Dopamine receptor 5, DRD1L2, Hd5dr, Dopamine d1b receptor, Dopamine D5 receptor, Dopamine receptor D1B

Gene ID: 1816

Pathways: [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [cAMP Metabolic Process](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

## Application Details

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Application Notes: Approved: IHC, IHC-P (3.4 µg/mL)

Comment: Target Species of Antibody: Human

Assay Procedure: **The IHC-pro Immunohistochemistry Protocol**

### Tissue Preparation

Formalin fixation and embedding in paraffin wax

### Tissue Sectioning

Make 4-µm sections and place on pre-cleaned and charged microscope slides.

Heat in a tissue-drying oven for 45 minutes at 60°C

Deparaffinization

Wash slides in 3 changes of xylene – 5 minutes each at room temperature.

### Rehydration

Wash slides in 3 changes of 100% alcohol – 3 minutes each at room temperature.

Wash slides in 2 changes of 95% alcohol – 3 minutes each at room temperature.

Wash slides in 1 change of 80% alcohol – 3 minutes at room temperature.

Rinse slides in gentle running distilled water – 5 minutes at room temperature.

### Antigen retrieval

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) – 1 minute at room temperature.

### Immunostaining

Do not allow tissues to dry at any time during the staining procedure.

Apply a universal protein block – 20 minutes at room temperature.

Drain protein block from slides, apply diluted primary antibody – 45 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply a biotinylated secondary antibody (specific to the host of the primary antibody) - 30 minutes at room temperature.

Rinse slides 1X TBST – 1 minute at room temperature.

Apply alkaline phosphatase streptavidin – 30 minutes at room temperature.

Rinse slides in 1X TBST - 1 minute at room temperature.

Apply alkaline phosphatase chromogen substrate – 30 minutes at room temperature.

Wash slides in distilled water – 1 minute at room temperature.

### Dehydrate

This method should only be used if the chromogen substrate is alcohol insoluble.

Wash slides in 2 changes of 80% alcohol – 1 minute each at room temperature.

Wash slides in 2 changes of 95% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of 100% alcohol – 1 minute each at room temperature.

Wash slides in 3 changes of xylene – 1 minute each at room temperature.

Apply coverslip

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Restrictions: For Research Use only

### Handling

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Format: Liquid

Concentration: Lot specific

Buffer: PBS, less than 0.1 % sodium azide.

Preservative: Sodium azide

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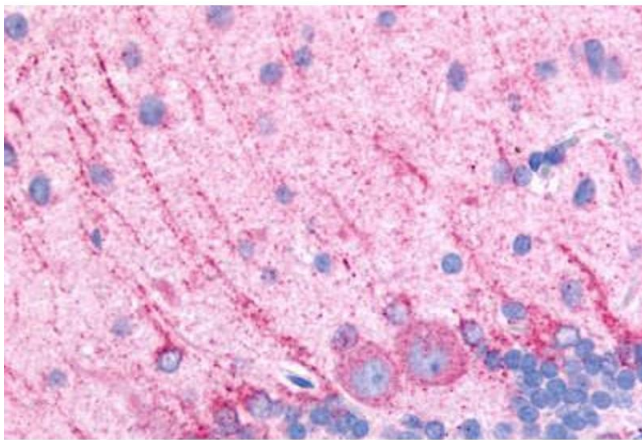
## Handling

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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

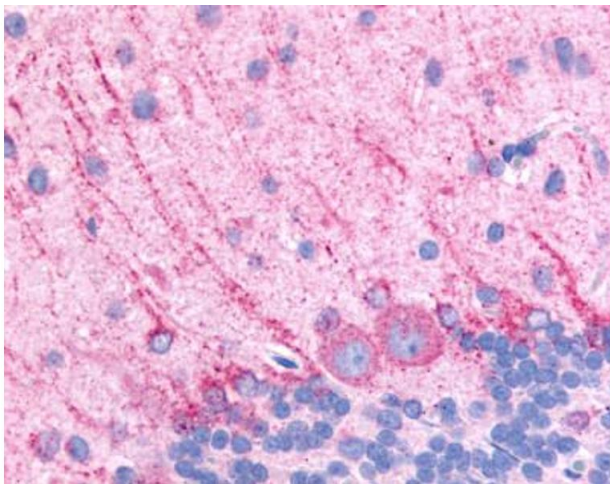
## Images

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### Immunohistochemistry

**Image 1.** Anti-DRD5 / Dopamine Receptor D5 antibody ABIN1048520 IHC staining of rat brain, Purkinje neurons. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-DRD5 / Dopamine Receptor D5 antibody IHC of rat brain, Purkinje neurons. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.