

Datasheet for ABIN1048514

anti-Dopamine Receptor d1 antibody (Extracellular Domain)[Go to Product page](#)**2** Images

Overview

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|----------------------|---|
| Quantity: | 50 µg |
| Target: | Dopamine Receptor d1 (DRD1) |
| Binding Specificity: | Extracellular Domain |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Dopamine Receptor d1 antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

Product Details

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|-----------------------|--|
| Brand: | IHC-plus™ |
| Immunogen: | Synthetic 20 amino acid peptide from 2nd extracellular domain of human DRD1. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey (100%), Gibbon, Marmoset (95%), Elephant (90%), Dog, Rabbit (85%), Horse (80%). Type of Immunogen: Synthetic peptide |
| Specificity: | Human DRD1. BLAST analysis of the peptide immunogen showed no homology with other human proteins. |
| Predicted Reactivity: | Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey (100%) Gibbon, Marmoset (95%) Elephant (90%) Dog, Rabbit (85%) Horse (80%). |
| Purification: | Immunoaffinity purified |

Target Details

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|-------------------|---|
| Target: | Dopamine Receptor d1 (DRD1) |
| Alternative Name: | DRD1 / Dopamine Receptor D1 (DRD1 Products) |
| Background: | Name/Gene ID: DRD1 Subfamily: Dopamine Family: GPCR Synonyms: DRD1, D(1A) dopamine receptor, D1a dopamine receptor, Dopamine d-1 receptor, Dopamine receptor d1a, DRD1A, DADR, Dopamine d1a receptor, Dopamine receptor D1, Dopamine 1 receptor, Dopamine type 1 receptor, D-1 dopamine receptor, D1 dopamine receptor, D1a receptor, Dopamine D1 receptor |
| Gene ID: | 1812 |
| Pathways: | cAMP Metabolic Process , Inositol Metabolic Process , Protein targeting to Nucleus , Feeding Behaviour , Smooth Muscle Cell Migration , Regulation of long-term Neuronal Synaptic Plasticity |

Application Details

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| Application Notes: | Approved: IHC, IHC-P (10 µg/mL) Not recommended for: ICC, IHC-Fr |
| 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

Restrictions: For Research Use only

Handling

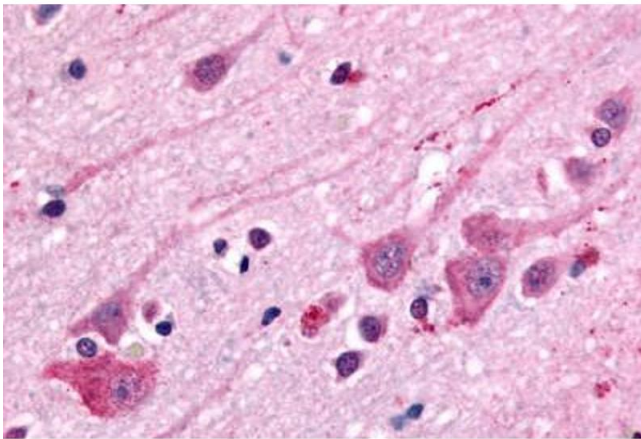
Format: Liquid

Concentration: Lot specific

Handling

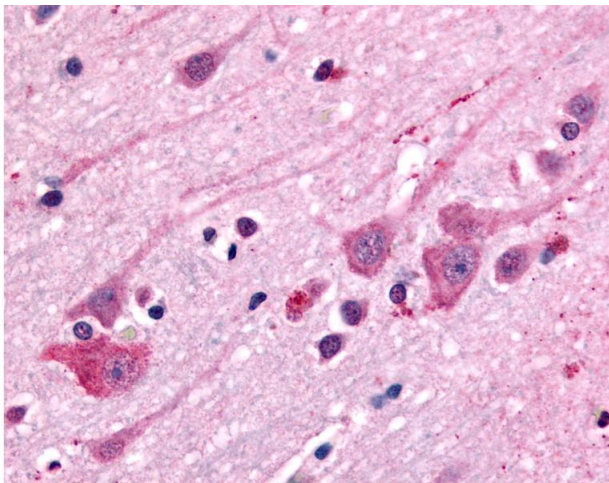
| | |
|--------------------|---|
| Buffer: | PBS, less than 0.1 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | 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



Immunohistochemistry

Image 1. Anti-DRD1 antibody ABIN1048514 IHC staining of human brain. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



Immunohistochemistry

Image 2. Anti-DRD1 antibody IHC of human brain. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.