Datasheet for ABIN1048514

anti-Dopamine Receptor d1 antibody (Extracellular Domain)

2 Images

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Overview

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

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

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Target Details

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

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.

Application Details

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

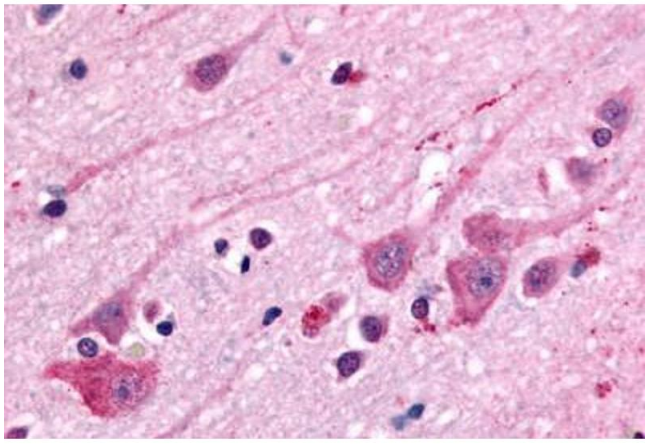
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

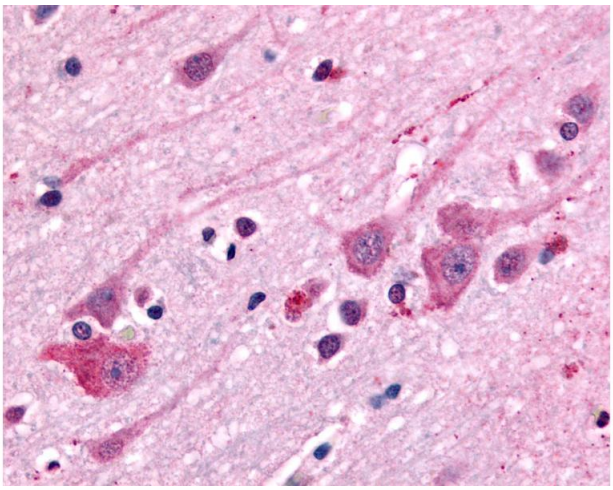
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 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.