

Datasheet for ABIN1048978

**anti-OPRK1 antibody (Extracellular Domain)****2** Images[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	OPRK1
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Rat, Monkey, Dog, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	<p>Synthetic 19 amino acid peptide from 2nd extracellular domain of human Kappa Opioid Receptor. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Dog, Horse, Rabbit (100%), Gorilla, Mouse, Rat, Elephant, Guinea pig (95%), Bat, Bovine, Panda (89%), Opossum (84%).</p> <p>Type of Immunogen: Synthetic peptide</p>
Specificity:	Human Kappa Opioid Receptor. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Dog, Horse, Rabbit (100%) Gorilla, Mouse, Rat, Elephant, Guinea pig (95%) Bat, Bovine, Panda (89%) Opossum (84%).

## Product Details

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Purification: Immunoaffinity purified

## Target Details

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Target: OPRK1

Alternative Name: OPRK1 / kappa Opioid Receptor ([OPRK1 Products](#))

Background: Name/Gene ID: OPRK1  
Subfamily: Opioid  
Family: GPCR  
  
Synonyms: OPRK1, Kappa-type opioid receptor, Opiate receptor, kappa-1, K-OR-1, KOR, Opioid receptor, kappa 1, OPRK, Ork1, Kappa opioid receptor, KOR-1, Opioid receptor kappa

Gene ID: 4986

## Application Details

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Application Notes: Approved: IHC, IHC-P (4 µg/mL)  
  
Usage: Please note that this antibody produces faint nuclear background staining in some tissues.

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
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### Handling

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Format:	Liquid
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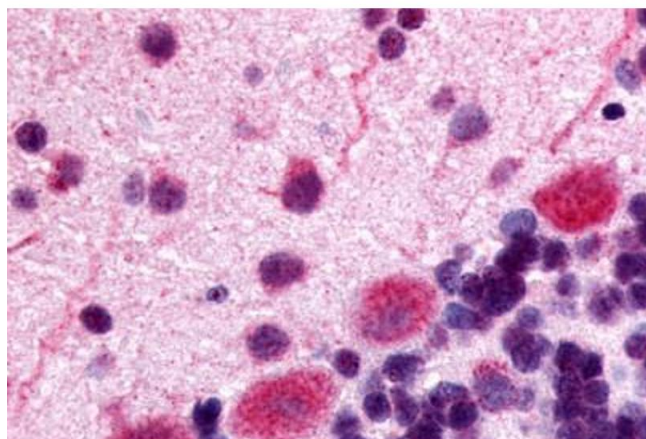
Concentration:	Lot specific
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## Handling

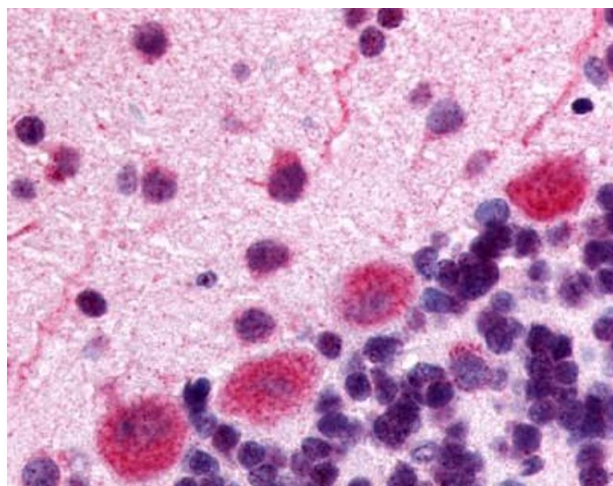
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 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-Kappa Opioid Receptor antibody ABIN1048978 IHC staining of rat brain, Purkinje neurons. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

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