

Datasheet for ABIN1048827

**anti-Prostaglandin D2 Receptor 2 (PTGDR2) (Extracellular Domain) antibody**[Go to Product page](#)**3** Images

## Overview

Quantity:	50 µg
Target:	Prostaglandin D2 Receptor 2 (PTGDR2)
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 20 amino acid peptide from 3rd extracellular domain of human GPR44 / CRTH2. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey (100%), Gibbon (95%), Panda, Dog (90%), Elephant, Bovine, Horse (85%), Rabbit, Pig, Guinea pig (80%).  Type of Immunogen: Synthetic peptide
Specificity:	Human GPR44 / CRTH2. 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 (95%) Panda, Dog (90%) Elephant, Bovine, Horse (85%) Rabbit, Pig, Guinea pig (80%).
Purification:	Immunoaffinity purified

## Target Details

Target:	Prostaglandin D2 Receptor 2 (PTGDR2)
Alternative Name:	GPR44 / CRTH2 ( <a href="#">PTGDR2 Products</a> )
Background:	Name/Gene ID: PTGDR2 Subfamily: Prostanoid Family: GPCR  Synonyms: PTGDR2, CD294, CRTH2, CD294 antigen, DP2, DL1R, G protein-coupled receptor 44, G-protein coupled receptor 44, HCRT2, DP2 prostaglandin receptor, GPR44, Prostaglandin D2 receptor 2
Gene ID:	11251
Pathways:	<a href="#">Regulation of G-Protein Coupled Receptor Protein Signaling</a>

## Application Details

Application Notes:	Approved: ICC, IHC, IHC-P (16 - 32 µg/mL)
Comment:	Target Species of Antibody: Human
Assay Procedure:	<b>The IHC-pro Immunohistochemistry Protocol</b>

### 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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Buffer:	PBS, less than 0.1 % sodium azide.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
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## Handling

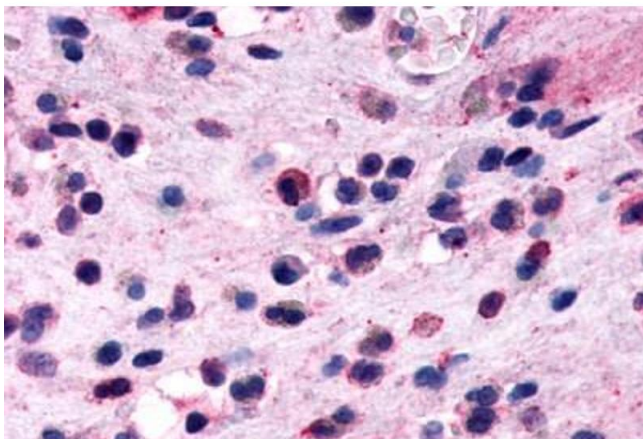
should be handled by trained staff only.

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.

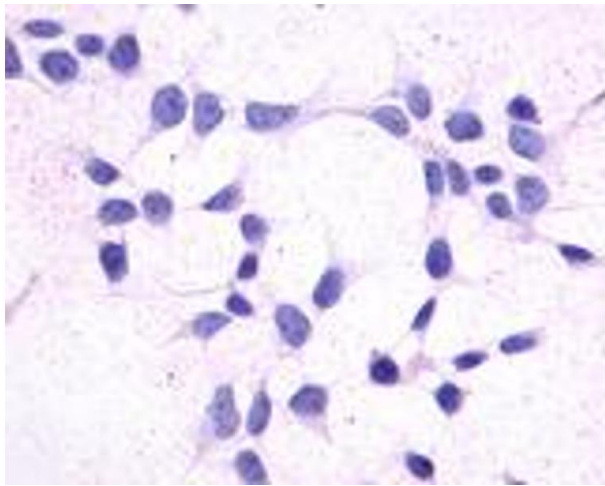
Expiry Date: 12 months

## Images



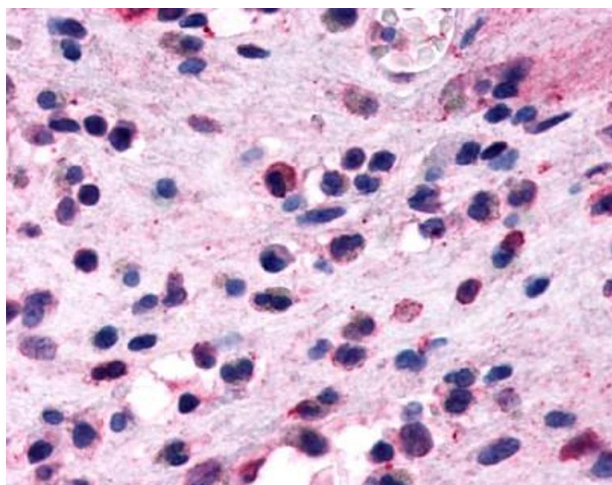
### Immunohistochemistry

**Image 1.** Anti-GPR44 / CRTH2 antibody ABIN1048827 IHC staining of human nasal mucosa, eosinophils. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunocytochemistry

**Image 2.** Anti-GPR44 / CRTH2 antibody immunocytochemistry (ICC) staining of untransfected HEK293 human embryonic kidney cells.



#### Immunohistochemistry

**Image 3.** Anti-GPR44 / CRTH2 antibody IHC of human nasal mucosa, eosinophils. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.