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# anti-PTGER3 antibody (Cytoplasmic Domain)

2 Images



Go to Product page

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Quantity:	50 μg	
Target:	PTGER3	
Binding Specificity:	Cytoplasmic Domain	
Reactivity:	Human, Monkey, Bat	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))	
Product Details		
Brand:	IHC-plus™	
Immunogen:	Synthetic 17 amino acid peptide from 1st cytoplasmic domain of human PTGER3 / EP3.  Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Panda,	
	Bat (100%), Mouse (94%), Xenopus (88%), Bovine, Pig, Opossum (82%).	
	Type of Immunogen: Synthetic peptide	
Specificity:	Human PTGER3 / EP3. 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, Gibbon, Monkey, Panda,	
	Bat (100%) Mouse (94%) Xenopus (88%) Bovine, Pig, Opossum (82%).	
Purification:	Immunoaffinity purified	

### **Target Details**

Target:	PTGER3	
Alternative Name:	PTGER3 / EP3 (PTGER3 Products)	
Background:	Name/Gene ID: PTGER3 Subfamily: Prostanoid Family: GPCR	
	Synonyms: PTGER3, Ep3 prostanoid receptor, Ep3 receptor, EP3-I, EP3e, EP3-II, EP3-III, EP3-IV, PGE receptor, EP3 subtype, Prostaglandin receptor (PGE-2), Prostaglandin ep3 receptor, Prostanoid EP3 receptor, PGE receptor EP3 subtype, Pge2 receptor ep3, PGE2 receptor EP3 subtype, Prostaglandin E receptor 3, Prostaglandin e2 receptor ep3, EP3, Ep3 subtype pge2 receptor, PGE2-R, Prostaglandin E receptor EP3	
Gene ID:	5733	

# **Application Details**

Assay Procedure: The IHC-pro Immunohistochemistry Protocol	
Comment:	Target Species of Antibody: Human
Application Notes:	Approved: IHC, IHC-P (1 - 3 μg/mL)

# **Tissue Preparation**

Formalin fixation and embedding in paraffin wax

#### **Tissue Sectioning**

Make 4- $\mu$ m 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

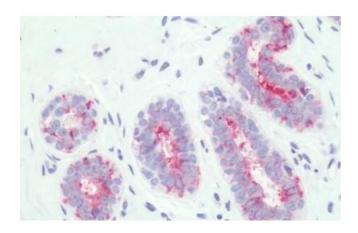
#### Handling

Format:	Liquid	
Concentration:	Lot specific	
Buffer:	PBS, less than 0.1 % sodium azide.	
Preservative:	Sodium azide	

# Handling

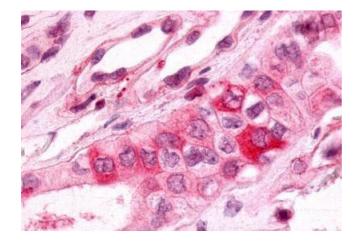
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw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

# **Images**



# **Immunohistochemistry**

**Image 1.** Human, Breast: Formalin-Fixed Paraffin-Embedded (FFPE)



## **Immunohistochemistry**

**Image 2.** Anti-PTGER3 / EP3 antibody ABIN1049256 IHC staining of human kidney, renal tubules. Immunohistochemistry of formalin-fixed, paraffinembedded tissue after heat-induced antigen retrieval.