

Datasheet for ABIN1048679  
**anti-GPC4 antibody (N-Term)**

2 Images



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## Overview

Quantity:	50 µg
Target:	GPC4
Binding Specificity:	N-Term
Reactivity:	Human, Hamster, Dog, Pig
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from N-Terminus of human GPC4 / Glypican 4. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Monkey, Hamster, Panda, Dog, Pig (100%), Marmoset, Mouse, Elephant, Bovine, Horse (94%), Rat, Bat, Rabbit (88%).  Type of Immunogen: Synthetic peptide
Specificity:	Human GPC4 / Glypican 4. 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, Hamster, Panda, Dog, Pig (100%) Marmoset, Mouse, Elephant, Bovine, Horse (94%) Rat, Bat, Rabbit (88%).

## Product Details

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Purification: Immunoaffinity purified

## Target Details

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Target: GPC4

Alternative Name: GPC4 / Glypican 4 ([GPC4 Products](#))

Background: Name/Gene ID: GPC4

Synonyms: GPC4, DJ900E8.1 (glypican 4), Glypican 4, Glypican proteoglycan 4, Glypican-4, K-glypican

Gene ID: 2239

Pathways: [Glycosaminoglycan Metabolic Process](#)

## Application Details

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Application Notes: Approved: IHC, IHC-P (2.5 - 5 µg/mL)

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**

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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

## Handling

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Format: Liquid

Concentration: Lot specific

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

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## Handling

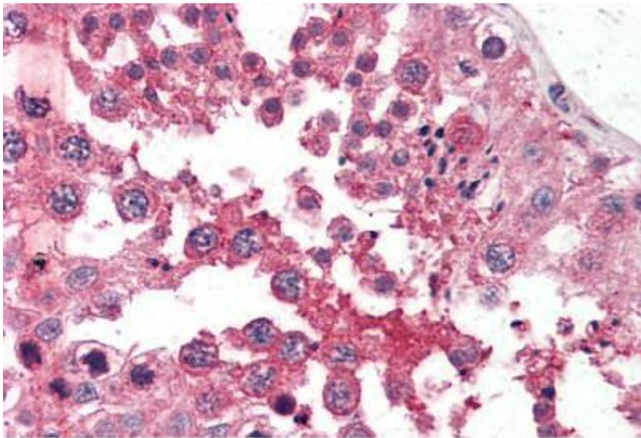
should be handled by trained staff only.

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.

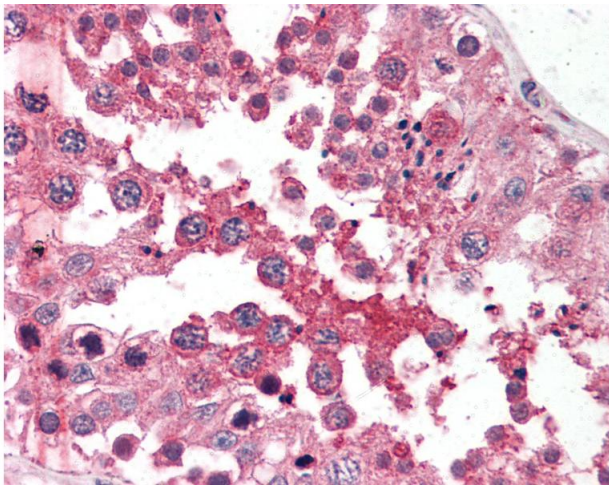
Expiry Date: 12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-GPC4 / Glypican 4 antibody ABIN1048679 IHC staining of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-GPC4 / Glypican 4 antibody IHC of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.