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Datasheet for ABIN1048623  
**anti-FZD4 antibody (N-Term)**

2 Images

Overview

Quantity:	50 µg
Target:	FZD4
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Cow, Dog, Monkey, Hamster
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 18 amino acid peptide from N-terminal extracellular domain of human FZD4 / Frizzled 4. Percent identity with other species by BLAST analysis: Human, Gibbon, Monkey, Marmoset, Rat, Dolphin, Hamster, Elephant, Panda, Dog, Bovine (100%), Mouse, Horse, Pig (94%), Rabbit (89%), Lizard (83%).  Type of Immunogen: Synthetic peptide
Specificity:	Human FZD4 / Frizzled 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, Gibbon, Monkey, Marmoset, Rat, Dolphin, Hamster, Elephant, Panda, Dog, Bovine (100%) Mouse, Horse, Pig (94%) Rabbit (89%) Lizard (83%).

## Product Details

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Purification: Immunoaffinity purified

## Target Details

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Target: FZD4

Alternative Name: FZD4 / Frizzled 4 ([FZD4 Products](#))

Background: Name/Gene ID: FZD4  
Subfamily: Frizzled  
Family: GPCR

Synonyms: FZD4, CD344, CD344 antigen, EVR1, Frizzled family receptor 4, Frizzled-4, Fz-4, Fz4, HFz4, Exudative vitreoretinopathy 1, FEVR, FZD4S, FzE4, Frizzled 4, Frizzled homolog 4, WNT receptor frizzled-4

Gene ID: 8322

Pathways: [WNT Signaling](#), [Hormone Transport](#), [Sensory Perception of Sound](#)

## Application Details

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Application Notes: Approved: IHC, IHC-P (30 - 60 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**

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

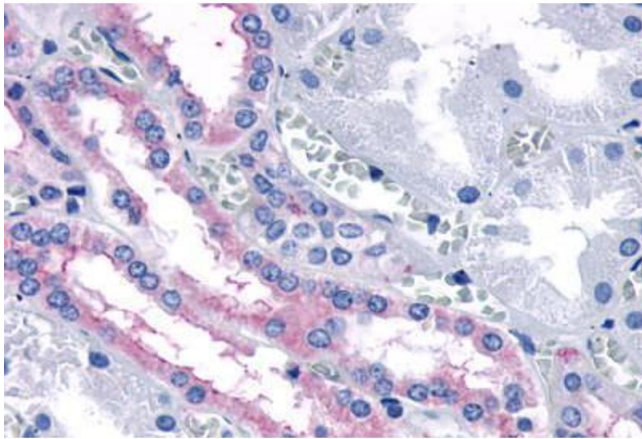
Buffer: PBS, less than 0.1 % sodium azide.

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## Handling

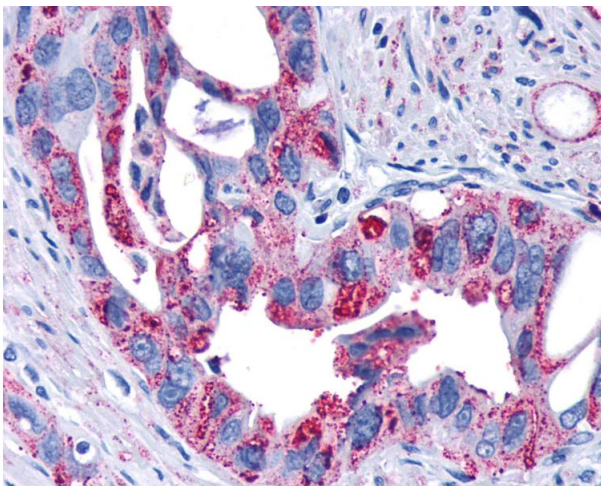
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for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

## Images



### Immunohistochemistry

**Image 1.** Anti-FZD4 / Frizzled 4 antibody ABIN1048623 IHC staining of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-FZD4 / Frizzled 4 antibody IHC of human Pancreas, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.