



Datasheet for ABIN1048714

## anti-G Protein-Coupled Receptor 133 antibody (Cytoplasmic Domain)



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### 3 Images

#### Overview

Quantity:	50 µg
Target:	G Protein-Coupled Receptor 133 (GPR133)
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Monkey, Dog, Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This G Protein-Coupled Receptor 133 antibody is un-conjugated
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC)

#### Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 19 amino acid peptide from 3rd cytoplasmic domain of human GPR133. Percent identity with other species by BLAST analysis: Human, Gorilla, Monkey, Marmoset, Dog, Panda, Rabbit, Pig (100%), Gibbon, Bovine, Elephant, Horse (95%), Mouse, Hamster (84%).  Type of Immunogen: Synthetic peptide
Specificity:	Human GPR133. 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, Marmoset, Dog, Panda, Rabbit, Pig (100%) Gibbon, Bovine, Elephant, Horse (95%) Mouse, Hamster (84%).
Purification:	Immunoaffinity purified

## Target Details

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Target: G Protein-Coupled Receptor 133 (GPR133)

Alternative Name: ADGRD1 / GPR133 ([GPR133 Products](#))

Background: Name/Gene ID: ADGRD1  
Subfamily: Orphan-U  
Family: GPCR

Synonyms: ADGRD1, G protein-coupled receptor 133, GPR133, PGR25

Gene ID: 283383

## Application Details

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Application Notes: Approved: IHC, IHC-P (10 - 20 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.

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

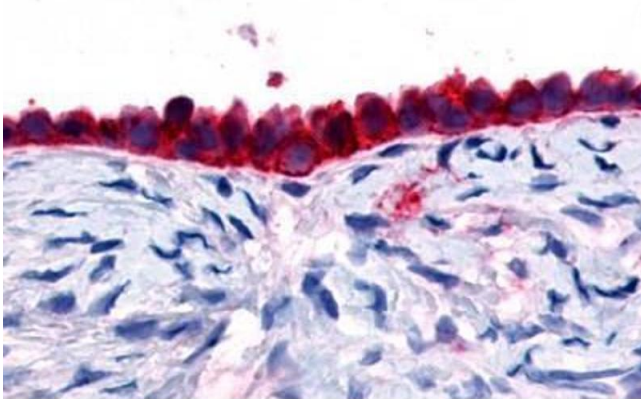
Storage Comment: Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for

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up to 1 month. Avoid freeze-thaw cycles.

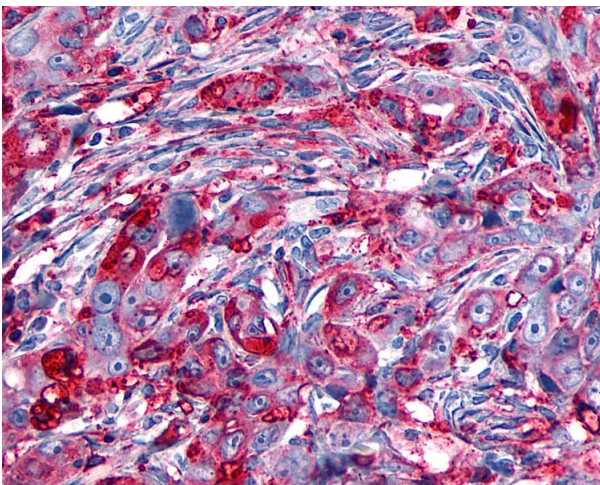
Expiry Date: 12 months

Images



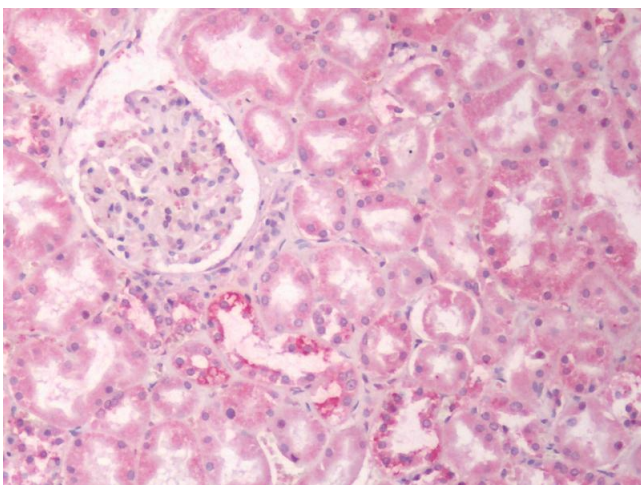
**Immunohistochemistry**

**Image 1.** Anti-GPR133 antibody ABIN1048714 IHC staining of human ovary, surface epithelium. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



**Immunohistochemistry**

**Image 2.** Anti-GPR133 antibody IHC of human Ovary, Carcinoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



**Immunohistochemistry (Paraffin-embedded Sections)**

**Image 3.** Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)