

Datasheet for ABIN1048881  
**anti-GPR83 antibody (Cytoplasmic Domain)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	50 µg
Target:	GPR83
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human
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 3rd cytoplasmic domain of human GPR83. Percent identity with other species by BLAST analysis: Human (100%), Gibbon, Monkey (94%), Marmoset, Mouse, Rat, Dog, Hamster, Elephant, Panda, Horse, Rabbit, Pig, Xenopus (89%), Bovine, Bat, Opossum, Turkey, Chicken, Platypus (83%).  Type of Immunogen: Synthetic peptide
Specificity:	Human GPR83. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human (100%) Gibbon, Monkey (94%) Marmoset, Mouse, Rat, Dog, Hamster, Elephant, Panda, Horse, Rabbit, Pig, Xenopus (89%) Bovine, Bat, Opossum, Turkey, Chicken, Platypus (83%).

## Product Details

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Purification: Immunoaffinity purified

## Target Details

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Target: GPR83

Alternative Name: GPR83 ([GPR83 Products](#))

Background: Name/Gene ID: GPR83

Subfamily: Orphan-A

Family: GPCR

Synonyms: GPR83, G protein-coupled receptor 83, G-protein coupled receptor 72, GPR72, Jp05, KIAA1540, Hcepto9, G protein-coupled receptor 72, GIR

Gene ID: 10888

## Application Details

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Application Notes: Approved: IHC, IHC-P (6 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
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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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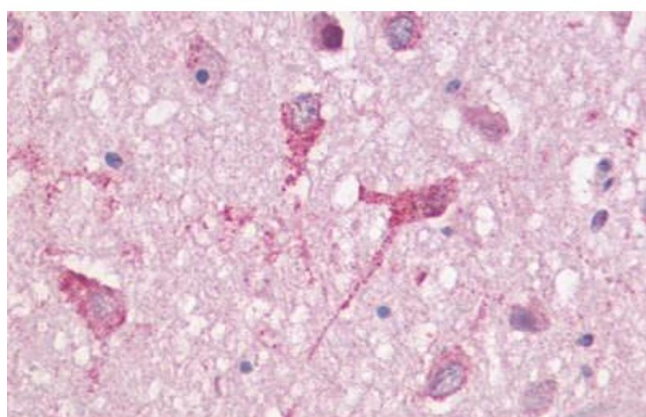
Preservative:	Sodium azide
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## Handling

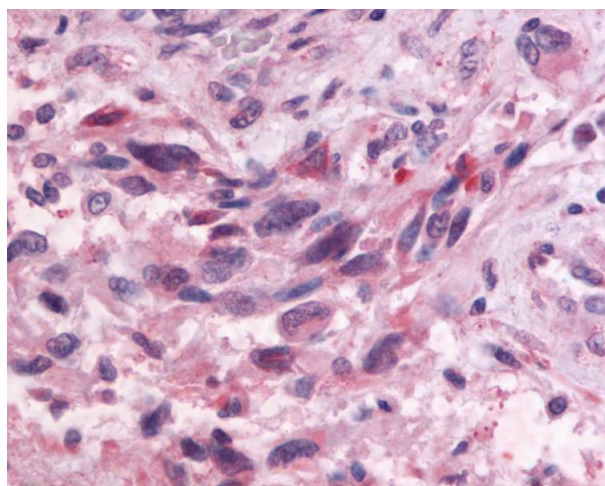
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for up to 1 month. Avoid freeze-thaw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

## Images



### Immunohistochemistry

**Image 1.** Anti-GPR83 antibody ABIN1048881 IHC staining of human brain, neurons and neuropil. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-GPR83 antibody IHC of human Brain, Glioblastoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.