

Datasheet for ABIN1048812  
**anti-GPR39 antibody (Extracellular Domain)**



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## Overview

Quantity:	50 µg
Target:	GPR39
Binding Specificity:	Extracellular Domain
Reactivity:	Human, Mouse, Rat, Horse, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GPR39 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 16 amino acid peptide from 3rd extracellular domain of human GPR39. Percent identity with other species by BLAST analysis: Human, Gorilla, Gibbon, Mouse, Rat, Horse, Rabbit (100%), Marmoset, Bovine, Panda, Turkey, Chicken (94%), Pig, Opossum (88%), Dog (81%).  Type of Immunogen: Synthetic peptide
Specificity:	Human GPR39. 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, Mouse, Rat, Horse, Rabbit (100%) Marmoset, Bovine, Panda, Turkey, Chicken (94%) Pig, Opossum (88%)

## Product Details

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Dog (81%).

Purification: Immunoaffinity purified

## Target Details

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Target: GPR39

Alternative Name: GPR39 ([GPR39 Products](#))

Background: Name/Gene ID: GPR39

Subfamily: Orphan-A

Family: GPCR

Synonyms: GPR39, G protein-coupled receptor 39, G-protein coupled receptor 39

Gene ID: 2863

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Feeding Behaviour](#)

## Application Details

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Application Notes: Approved: IHC, IHC-P (1.25 - 2.5 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**

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

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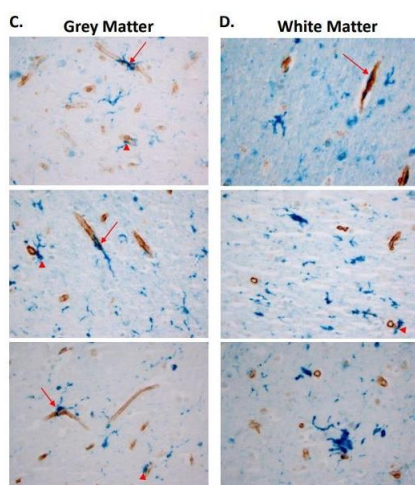
## Handling

Buffer:	PBS, 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 up to 1 month. Avoid freeze-thaw cycles.
Expiry Date:	12 months

## Publications

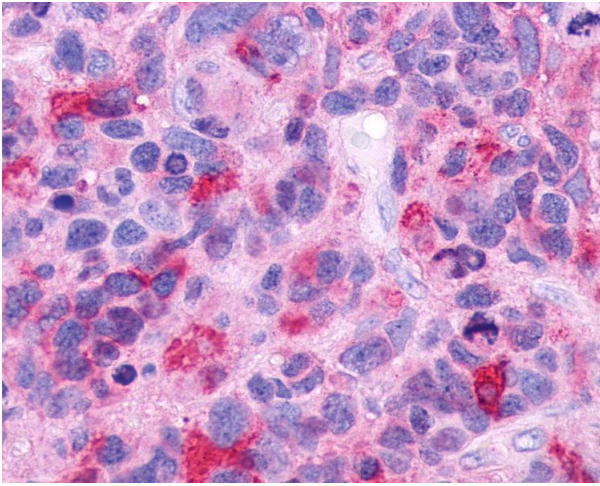
- Product cited in:
- Alkayed, Cao, Qian, Nagarajan, Liu, Nelson, Xie, Li, Fan, Liu, Grafe, Davis, Xiao, Barnes, Kaul: "Control of Coronary Vascular Resistance by Eicosanoids via a Novel GPCR." in: , (2022) ([PubMed](#)).
- Davis, Bah, Zhang, Nelson, Golgotiu, Nie, Alkayed, Young, Woltjer, Silbert, Grafe, Alkayed: "GPR39 localization in the aging human brain and correlation of expression and polymorphism with vascular cognitive impairment." in: **Alzheimer's & dementia (New York, N. Y.)**, Vol. 7, Issue 1, pp. e12214, (2021) ([PubMed](#)).

## Images



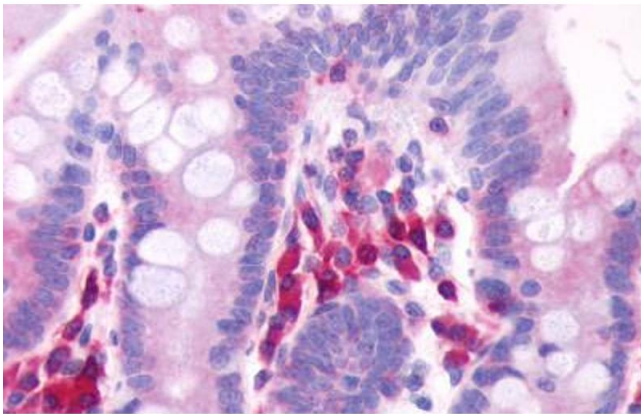
### Immunohistochemistry

**Image 1.** Representative images of collagen IV (brown) and GPR39 (blue) (ABIN1048812) labeling in human dIPFC grey, C, and white matter, D, arrows indicate colocalization of GPR39 with collagen IV, arrowheads indicate close proximity of GPR39 with collagen IV. \*  $p < 0.05$ , \*\*  $p < 0.001$ , 1-way ANOVA, data represent mean  $\pm$  SEM (n=5-15/group). DOI: 10.1101/2021.07.15.452525



#### Immunohistochemistry

**Image 2.** Anti-GPR39 antibody IHC of human Brain, Glioblastoma. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



#### Immunohistochemistry

**Image 3.** Anti-GPR39 antibody ABIN1048812 IHC staining of human small intestine. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1048812.