

Datasheet for ABIN1048689

**anti-GPR109B antibody (Cytoplasmic Domain)****2** Images[Go to Product page](#)

## Overview

Quantity:	50 µg
Target:	GPR109B (HCAR3)
Binding Specificity:	Cytoplasmic Domain
Reactivity:	Human, Dog, Hamster
Host:	Rabbit
Clonality:	Polyclonal
Application:	Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

## Product Details

Brand:	IHC-plus™
Immunogen:	Synthetic 20 amino acid peptide from 3rd cytoplasmic domain of human GPR109B / HM74. Percent identity with other species by BLAST analysis: Human, Gorilla, Dog, Hamster, Panda (100%), Mouse, Horse, Guinea pig (95%), Rat (90%).  Type of Immunogen: Synthetic peptide
Specificity:	Human GPR109B / HM74. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except HCAR2 (100 % ), GPR81 (50 %).
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Gorilla, Dog, Hamster, Panda (100%) Mouse, Horse, Guinea pig (95%) Rat (90%).
Purification:	Immunoaffinity purified

## Target Details

Target:	GPR109B (HCAR3)
Alternative Name:	HCAR3 / GPR109B / HM74 ( <a href="#">HCAR3 Products</a> )
Background:	Name/Gene ID: HCAR3 Subfamily: Nicotinic Acid Family: GPCR  Synonyms: HCAR3, GPR109B, GTP-binding protein, NIACR2, HM74, HM74b, Nicotinic acid receptor 2, Putative chemokine receptor, Niacin receptor 2, Puma-g, HCA3, PUMAG
Gene ID:	8843

## Application Details

Application Notes:	Approved: ICC, IHC, IHC-P (19 - 38 µg/mL)
Comment:	Target Species of Antibody: Human
Assay Procedure:	<b>The IHC-pro Immunohistochemistry Protocol</b>

### 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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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	4 °C,-20 °C
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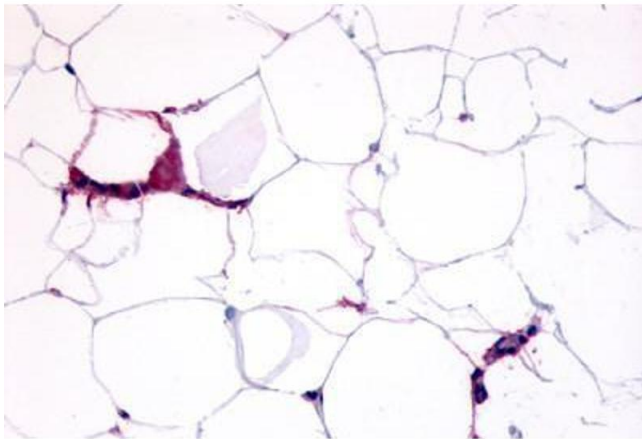
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## Handling

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.

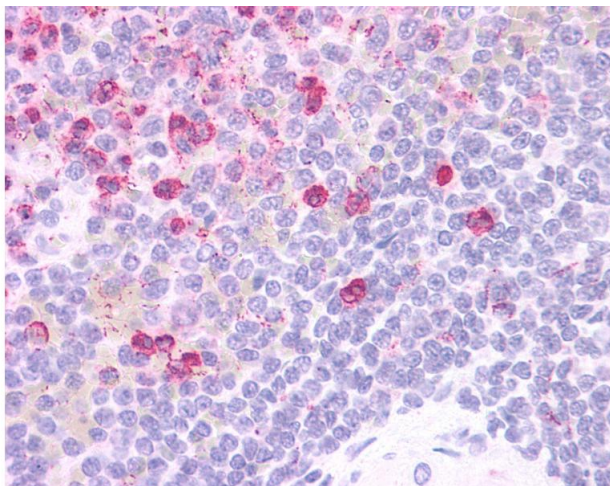
Expiry Date: 12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-GPR109B / HM74 antibody ABIN1048689 IHC staining of human adipocytes. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.



### Immunohistochemistry

**Image 2.** Anti-HCAR3 / GPR109B / HM74 antibody IHC of human spleen. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.