

Datasheet for ABIN1049005
anti-LGR4 antibody (N-Term)

1 Image

[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	LGR4
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Monkey, Rabbit, Pig
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 LGR4. Percent identity with other species by BLAST analysis: Human, Monkey, Marmoset, Mouse, Rat, Rabbit, Pig (100%), Bovine (94%), Elephant, Chicken (89%), Opossum (83%). Type of Immunogen: Synthetic peptide
Specificity:	Human LGR4. BLAST analysis of the peptide immunogen showed no homology with other human proteins.
Predicted Reactivity:	Percent identity with other species by BLAST analysis: Human, Monkey, Marmoset, Mouse, Rat, Rabbit, Pig (100%) Bovine (94%) Elephant, Chicken (89%) Opossum (83%).
Purification:	Immunoaffinity purified

Target Details

Target:	LGR4
Alternative Name:	GPR48 / LGR4 (LGR4 Products)
Background:	Name/Gene ID: LGR4 Subfamily: Orphan-A Family: GPCR Synonyms: LGR4, G-protein coupled receptor 48, G protein-coupled receptor 48, GPR48
Gene ID:	55366

Application Details

Application Notes:	Approved: IHC, IHC-P (4 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

Restrictions:	For Research Use only
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Handling

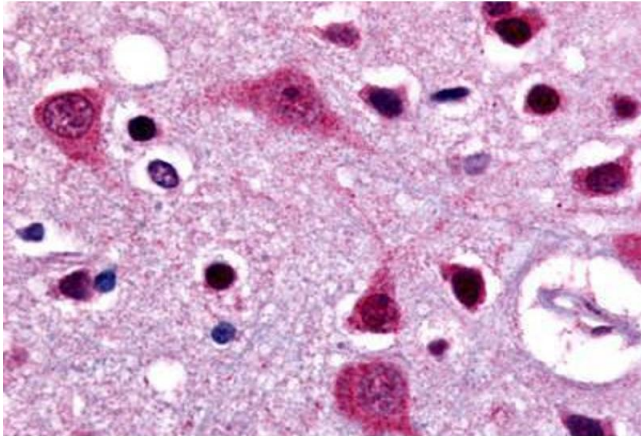
Format:	Liquid
Concentration:	Lot specific
Buffer:	PBS, less than 0.1 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Aliquot and store undiluted at -20°C or below for up to 1 year. Can be stored undiluted at 4°C for

Handling

up to 1 month. Avoid freeze-thaw cycles.

Expiry Date: 12 months

Images



Immunohistochemistry

Image 1. Anti-LGR4 antibody ABIN1049005 IHC staining of human brain, caudate. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.