Datasheet for ABIN7158126

# anti-LGR4 antibody (AA 234-365)

2 Images

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## Overview

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| Quantity: | 100 µg |
| Target: | LGR4 |
| Binding Specificity: | AA 234-365 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This LGR4 antibody is un-conjugated |
| Application: | ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF) |

## Product Details

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| Immunogen: | Recombinant Human Leucine-rich repeat-containing G-protein coupled receptor 4 protein (234-365AA) |
| Isotype: | IgG |
| Cross-Reactivity: | Human |
| Purification: | >95%, Protein G purified |

## Target Details

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| Target: | LGR4 |
| Alternative Name: | LGR4 (LGR4 Products) |
| Background: | Background: Receptor for R-spondins that potentiates the canonical Wnt signaling pathway and |

## Target Details

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| | is involved in the formation of various organs. Upon binding to R-spondins (RSPO1, RSPO2, RSPO3 or RSPO4), associates with phosphorylated LRP6 and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical Wnt signaling pathway to increase expression of target genes. In contrast to classical G-protein coupled receptors, does not activate heterotrimeric G-proteins to transduce the signal. Its function as activator of the Wnt signaling pathway is required for the development of various organs, including liver, kidney, intestine, bone, reproductive tract and eye. May also act as a receptor for norrin (NDP), such results however require additional confirmation in vivo. Required during spermatogenesis to activate the Wnt signaling pathway in peritubular myoid cells. Required for the maintenance of intestinal stem cells and Paneth cell differentiation in postnatal intestinal crypts. Acts as a regulator of bone formation and remodeling. Involved in kidney development, required for maintaining the ureteric bud in an undifferentiated state. Involved in the development of the anterior segment of the eye. Required during erythropoiesis. Also acts as a negative regulator of innate immunity by inhibiting TLR2/TLR4 associated pattern-recognition and proinflammatory cytokine production. Plays an important role in regulating the circadian rhythms of plasma lipids, partially through regulating the rhythmic expression of MTTP (By similarity).<br>Aliases: BNMD17 antibody, G protein coupled receptor 48 antibody, G-protein coupled receptor 48 antibody, GPR48 antibody, Leucine-rich repeat-containing G protein-coupled receptor 4 antibody, Leucine-rich repeat-containing G-protein coupled receptor 4 antibody, LGR4 antibody, LGR4_HUMAN antibody |
| UniProt: | Q9BXB1 |

## Application Details

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| Application Notes: | Recommended dilution: IHC:1:20-1:200, IF:1:50-1:200, |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4 |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be |

## Handling

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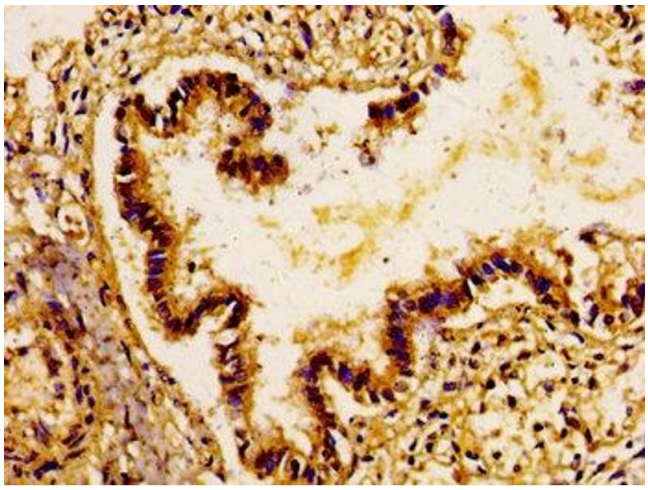
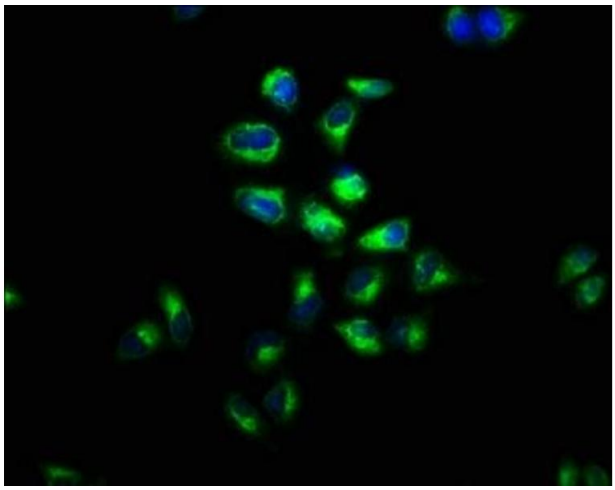
| | handled by trained staff only. |
| Storage: | -20 °C,-80 °C |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |

## Images



**Immunohistochemistry**

**Image 1.** IHC image of ABIN7158126 diluted at 1:100 and staining in paraffin-embedded human lung tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



**Immunofluorescence**

**Image 2.** Immunofluorescence staining of Hela cells with ABIN7158126 at 1:100, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).