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Datasheet for ABIN7158129
anti-LGR4 antibody (AA 234-365) (HRP)

Overview

Quantity:	100 µg
Target:	LGR4
Binding Specificity:	AA 234-365
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LGR4 antibody is conjugated to HRP
Application:	ELISA

Product Details

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

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

Target Details

is involved in the formation of various organs. Upon binding to R-spondins (RSP01, RSP02, RSP03 or RSP04), 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).

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

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
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

handled by trained staff only.

Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.