Datasheet for ABIN1043731

anti-LGR4 antibody (Internal Region)

1 Publication

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Overview

Quantity:	1 mg
Target:	LGR4
Binding Specificity:	Internal Region
Reactivity:	Human, Chimpanzee, Macaque
Host:	Mouse
Clonality:	Monoclonal
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	LGR4 Antibody
Immunogen:	Immunogen: This LGR4 antibody was produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human LGR4 protein. The hybridoma was produced by fusing BALB/c mouse splenocytes and mouse myeloma SP2/O cells using conventional technology. Immunogen Type: Conjugated Peptide
Clone:	6G8-B3-G5-C3
Isotype:	IgG2b kappa
Cross-Reactivity (Details):	This antibody is specific for human LGR4 protein.
Characteristics:	Synonyms: mouse anti-LGR4 antibody, mouse anti-LGR 4 antibody, leucine-rich repeat-containing G protein-coupled receptor 4
Purification:	Anti-LGR4 Antibody product was purified from concentrated tissue culture supernate by Protein

Product Details

	A chromatography.
Sterility:	Sterile filtered

Target Details

Target:	LGR4
Alternative Name:	LGR4 (LGR4 Products)
Background:	Background: LGR4, also known as leucine-rich repeat-containing G protein-coupled receptor 4, is a G protein-coupled receptors (GPCRs). GPCRs are membrane bound proteins that play key roles in a variety of physiologic functions. Members of the leucine-rich GPCR (LGR) family, such as GPR48, have multiple N-terminal leucine-rich repeats (LRRs) and a 7-transmembrane domain. LGR4 is an orphan GPCR reported to be expressed in steroidogenic tissues such as placenta, ovary, testis, adrenal, pancreas, prostate, and thyroid, as well as in spinal cord, stomach, heart, and kidney.
Gene ID:	55366, 157694513
UniProt:	Q8N537

Application Details

Application Notes:	Immunohistochemistry Dilution: 5 µg/mL Application Note: Anti-LGR4 antibody has been tested by ELISA and western blotting, and is suitable in immunohistochemistry. Expect a band approximately 102 kDa in size corresponding to LGR4 protein by western blotting in the appropriate cell lysate or extract. Specific conditions for reactivity should be optimized by the end user. Use formalin-fixed paraffin-embedded sections for immunohistochemistry. No pre-treatment of sample is required. Western Blot Dilution: 1:500 - 1:3,000 ELISA Dilution: 1:20,000 - 1:100,000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide

Handling

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:	Store Anti-LGR4 Monoclonal Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge antibody if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Publications

Product cited in:	Weng, Luo, Cheng, Jin, Zhou, Qu, Tu, Ai, Li, Wang, Martin, Amendt, Liu: "Deletion of G protein-coupled receptor 48 leads to ocular anterior segment dysgenesis (ASD) through down-regulation of Pitx2." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 105, Issue 16, pp. 6081-6, (2008) (PubMed).