Datasheet for ABIN349637

anti-LGR4 antibody (Internal Region)

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Overview

Quantity:	100 µg
Target:	LGR4
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This LGR4 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	LGR4 Antibody
Immunogen:	Immunogen: This monoclonal 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

Product Details

Purification:	Anti-LGR4 purified from concentrated tissue culture supernate by Protein 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 monoclonal antibody has been tested by ELISA and western blot, 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 Other: User Optimized
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.13 mg/mL

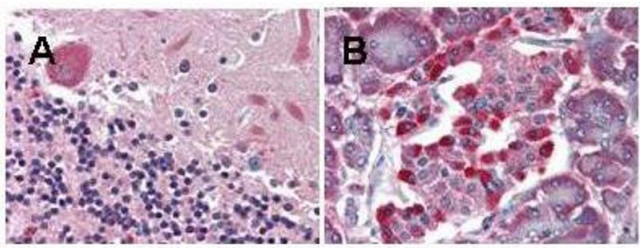
Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) 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:	Store vial 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 product 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:	Yi, Xiong, Gong, Bellister, Ellis, Liu: "Analysis of LGR4 receptor distribution in human and mouse tissues." in: **PLoS ONE**, Vol. 8, Issue 10, pp. e78144, (2014) (PubMed).

Images



Western Blotting

Image 1. anti-LGR4 monoclonal antibody was used diluted to 5 ?g/ml to detect LGR4 staining at the membrane of cells in various human tissues. A. Brain cerebellum. B. Pancreas islet. Strongly positive staining is noted in subsets of cells within the islets of Langerhans. Moderately positive staiing was observed in Purkinje and Golgi neurons of the cerebellum, adrenal medulla, neuroendocrine cells, hepatocytes, lung macrophages, seminiferous tubules and Leydig cells of the testis. Faintly to moderately positive staining was also observed in cardiac myocytes and renal tubules, granulocytes, and subsets of lymphocytes. Some elastin background staining is noted. Tissue was formalin

fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Personal communication, Andrew Elston, Lifespan Biosciences, Seattle, WA.