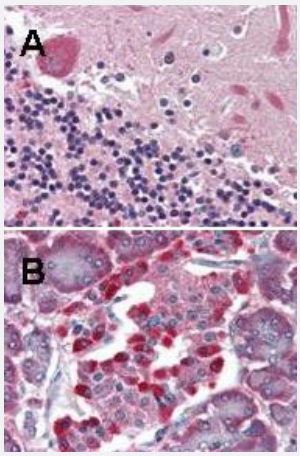
LGR4 monoclonal antibody, clone 6G8.B3.G5.C3

Catalog # MAB8166 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of LGR4 monoclonal antibody, clone 6G8.B3.G5.C3 (Cat # MAB8166) was used diluted to 5 ug/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.

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of LGR4.
Immunogen	A synthetic peptide corresponding to internal region of human LGR4 .
Host	Mouse
Reactivity	Chimpanzee, Human, Macaque
Form	Liquid

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Recommend Usage	ELISA (1:20000-1:100000) Western Blot (1:500-1:3000) Immunohistochemistry (5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM KH_2PO_4, 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Enzyme-linked Immunoabsorbent Assay

- Western Blot

Gene Info — LGR4

Entrez GeneID	55366
Gene Name	LGR4
Gene Alias	GPR48
Gene Description	leucine-rich repeat-containing G protein-coupled receptor 4
Omim ID	606666
Gene Ontology	Hyperlink

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Gene Summary	G protein-coupled receptors (GPCRs) 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 (Weng et al., 2008 [PubMed 18424556]).[supplied by OMIM
Other Designations	G protein-coupled receptor 48|G-protein-coupled receptor 48

Publication Reference

- Deletion of G protein-coupled receptor 48 leads to ocular anterior segment dysgenesis (ASD) through down-regulation of Pitx2.

  Weng J, Luo J, Cheng X, Jin C, Zhou X, Qu J, Tu L, Ai D, Li D, Wang J, Martin JF, Amendt BA, Liu M.

  PNAS 2008 Apr; 105(16):6081.

- Up-regulation of GPR48 induced by down-regulation of p27Kip1 enhances carcinoma cell invasiveness and metastasis.

  Gao Y, Kitagawa K, Hiramatsu Y, Kikuchi H, Isobe T, Shimada M, Uchida C, Hattori T, Oda T, Nakayama K, Nakayama KI, Tanaka T, Konno H, Kitagawa M.

  Cancer Research 2006 Dec; 66(24):11623.

- Molecular characterization of a novel glycoprotein hormone G-protein-coupled receptor.

  Loh ED, Broussard SR, Kolakowski LF.

  Biochemical and Biophysical Research Communications 2001 Apr; 282(3):757.

Pathway

- Neuroactive ligand-receptor interaction

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