

Product datasheet for **TA396767**

GPR48 (LGR4) Mouse Monoclonal Antibody [Clone ID: 6G8.B3.G5.C3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	6G8.B3.G5.C3
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1:500 - 1:3,000 IHC: 5 ug/mL ELISA: 1:20,000 - 1:100,000
Reactivity:	Human, Macaque
Host:	Mouse
Isotype:	IgG2b, kappa
Clonality:	Monoclonal
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.
Specificity:	Anti-LGR4 Antibody product was purified from concentrated tissue culture supernate by Protein A chromatography. This antibody is specific for human LGR4 protein. A BLAST analysis was used to suggest cross-reactivity with LGR4 from chimpanzee, orangutan and macaque based on 100% homology with the immunizing sequence. Cross-reactivity with LGR4 from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	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.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	leucine-rich repeat containing G protein-coupled receptor 4



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Database Link: [Entrez Gene 55366 Human Q8N537](#)

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.

Synonyms: mouse anti-LGR4 antibody, mouse anti-LGR 4 antibody, leucine-rich repeat-containing G protein-coupled receptor 4

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.