

Mouse Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4) ELISA Kit | LGR4 elisa kit

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CATALOG #
AAA161512

REACTIVITY
Mouse

PRODUCT SYNONYMS

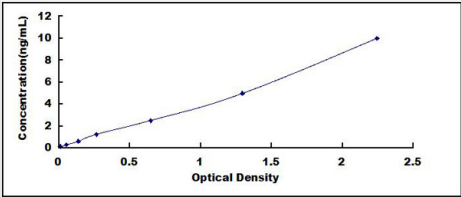
Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4); Mouse Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4) ELISA Kit; LGR4 ELISA kit (Mouse); GPR48; G Protein-Coupled Receptor 48; LGR4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	This assay has high sensitivity and excellent specificity for detection of Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4). No significant cross-reactivity or interference between Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4) and analogues was observed. Reactive with Mouse LGR4/Leucine Rich Repeat Containing G Protein Coupled Receptor 4
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates and other biological fluids
Detection Method	Colormetric
Featured Series	SE kit
Detection Range	0.156-10ng/mL
Sensitivity	0.054ng/mL
Sample Size	100uL
Assay Time	3h
Function	Detects protein (regular version)
Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4) were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4) were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100 Intra-Assay: CV<10%, Inter-Assay: CV<12%
Assay Procedure Summary	1. Prepare all reagents, samples and standards 2. Add 100ul standard or sample to each well. Incubate 2 hours at 37 degree C 3. Aspirate and add 100ul prepared Detection Reagent A. Incubate 1 hour at 37 degree C 4. Aspirate and wash 3 times 5. Add 100ul prepared Detection Reagent B. Incubate 30 minutes at 37 degree C 6. Aspirate and wash 5 times 7. Add 90ul Substrate Solution. Incubate 10-20 minutes at 37 degree C 8. Add 50ul Stop Solution. Read at 450nm immediately.

Test Principle	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of Leucine Rich Repeat Containing G Protein Coupled Receptor 4 (LGR4) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Research Area	CD & Adhesion molecule
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (One year within shelf life) The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)
Typical Standard Curve for LGR4 ELISA (Sandwich

NCBI AND UNIPROT INFORMATION

NCBI GI #	124430559
NCBI GeneID	107515
NCBI Accession #	NP_766259.2
NCBI GenBank Nucleotide #	NM_172671.2
UniProt Accession #	A2ARI4; Q6PHA3; Q80T31; Q8BXS9; A2ARI3
Molecular Weight	104,150 Da
NCBI Official Full Name	leucine-rich repeat-containing G-protein coupled receptor 4
NCBI Official Synonym Full Names	leucine-rich repeat-containing G protein-coupled receptor 4
NCBI Official Symbol	Lgr4
NCBI Official Synonym Symbols	Gpr48; 9130225G07; A330106J01Rik; A930009A08Rik
NCBI Protein Information	leucine-rich repeat-containing G-protein coupled receptor 4; G protein-coupled receptor 48; G-protein coupled receptor 48; G protein-coupled receptor GPR48
UniProt Protein Name	Leucine-rich repeat-containing G-protein coupled receptor 4
UniProt Gene Name	Lgr4
UniProt Synonym Gene Names	Gpr48
UniProt Entry Name	LGR4_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/leucine-rich-repeat-containing-g-protein-coupled-receptor-4-lgr4/161512>