

Human Leucine-rich repeat-containing G-protein coupled receptor 4 ELISA Kit | LGR4 elisa kit

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CATALOG #
AAA101705

REACTIVITY
Human

PRODUCT SYNONYMS

Leucine-rich repeat-containing G-protein coupled receptor 4; Human Leucine-rich repeat-containing G-protein coupled receptor 4 ELISA Kit; LGR4 (Leucine-rich repeat-containing G-protein coupled receptor 4)/GPR48/GPR48G protein-coupled receptor 48/G-protein coupled receptor 48/leucine-rich repeat containing G protein-coupled receptor 4; LGR4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LGMN. No significant cross-reactivity or interference between LGMN and analogues was observed.
Sequence Length	951
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LGMN were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level LGMN were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard run of a LGR4 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A: not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.004	0.176	0.33	0.659	0.988	1.628	1.884	2.414

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LGR4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-LGMN antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-LGMN antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the LGMN amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of LGMN can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	157694513
NCBI GeneID	55366
NCBI Accession #	NP_060960.2
NCBI GenBank Nucleotide #	NM_018490.2
Molecular Weight	101,667 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; BNMD17
NCBI Protein Information	leucine-rich repeat-containing G-protein coupled receptor 4
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_HUMAN

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/lgr4-human-elisa-kits/leucine-rich-repeat-containing-g-protein-coupled-receptor-4/101705>