

Rat Low Density Lipoprotein Receptor Related Protein 5 (LRP5) ELISA Kit | LRP5 elisa kit

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CATALOG #
AAA186119

REACTIVITY
Rat

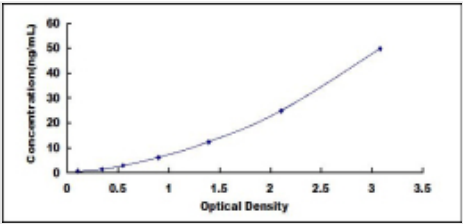
PRODUCT SYNONYMS

Low Density Lipoprotein Receptor Related Protein 5 (LRP5); Rat Low Density Lipoprotein Receptor Related Protein 5 (LRP5) ELISA Kit; HBM; BMND1; EVR1; EVR4; LR3; LRP7; OPPG; OPS; OPTA1; VBCH2; Osteoporosis Pseudoglioma Syndrome; Exudative Vitreoretinopathy 1; LRP5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of Low Density Lipoprotein Receptor Related Protein 5 (LRP5). No significant cross-reactivity or interference between Low Density Lipoprotein Receptor Related Protein 5 (LRP5) and analogues was observed.
Sequence Length	1,615
Assay Type	Double-antibody Sandwich
Samples	Tissue Homogenates, Cell Lysates and Other Biological Fluids
Detection Range	0.781-50ng/mL
Sensitivity	< 0.30ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Low Density Lipoprotein Receptor Related Protein 5 (LRP5) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Low Density Lipoprotein Receptor Related Protein 5 (LRP5) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	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)

ADDITIONAL INFORMATION

Related Product Information for LRP5 elisa kit

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 Low Density Lipoprotein Receptor Related Protein 5 (LRP5). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Low Density Lipoprotein Receptor Related Protein 5 (LRP5). 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 Low Density Lipoprotein Receptor Related Protein 5 (LRP5), 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 Low Density Lipoprotein Receptor Related Protein 5 (LRP5) in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119709832
NCBI GeneID	4041
NCBI Accession #	NP_002326.2
NCBI GenBank Nucleotide #	NM_002335.3
UniProt Accession #	O75197; Q96TD6; Q9UES7; Q9UP66
Molecular Weight	179,145 Da
NCBI Official Full Name	low-density lipoprotein receptor-related protein 5 isoform 1
NCBI Official Synonym Full Names	LDL receptor related protein 5
NCBI Official Symbol	LRP5
NCBI Official Synonym Symbols	HBM; LR3; OPS; EVR1; EVR4; LRP7; OPPG; BMND1; LRP-5; OPTA1; VBCH2
NCBI Protein Information	low-density lipoprotein receptor-related protein 5
UniProt Protein Name	Low-density lipoprotein receptor-related protein 5
UniProt Gene Name	LRP5
UniProt Synonym Gene Names	LR3; LRP7; LRP-5

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.