

Human Low-density lipoprotein receptor-related protein 5 ELISA Kit | LRP5 elisa kit

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CATALOG #
AAA99321

REACTIVITY
Human

PRODUCT SYNONYMS

Low-density lipoprotein receptor-related protein 5; Human Low-density lipoprotein receptor-related protein 5 ELISA Kit; LRP5/BMND1/EVR1/EVR4/HBM/LRP7/OPPG/OPS/OPTA1/VBCH2/BMND1/OPTA1/EVR1/EVR4/HBM/low density lipoprotein receptor-related protein 5/low density lipoprotein receptor-related protein 7/low-density lipoprotein receptor-related protein 5/LR3VBCH2/LRP-5/LRP7/exudative vitreoretinopathy 1/OPPG/OPS/osteoporosis pseudoglioma syndrome; LRP5 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of LRP5. No significant cross-reactivity or interference between LRP5 and analogues was observed.
Sequence Length	1615
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level LRP5 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 LRP5 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 operation of a LRP5 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A=not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.06	0.114	0.184	0.294	0.522	0.915	1.526	2.098

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for LRP5 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-LRP5 antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-LRP5 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 LRP5 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of LRP5 can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119709832
NCBI GeneID	4041
NCBI Accession #	NP_002326.2
NCBI GenBank Nucleotide #	NM_002335.3
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
UniProt Entry Name	LRP5_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/lrp5-human-elisa-kits/low-density-lipoprotein-receptor-related-protein-5/99321>