

Human Vitamin D3 receptor ELISA Kit | VDR elisa kit

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CATALOG #
AAA100820

REACTIVITY
Human

PRODUCT SYNONYMS

Vitamin D3 receptor; Human Vitamin D3 receptor ELISA Kit; VDR (Vitamin D Receptor)/NR111/Nuclear receptor subfamily 1 group I member 1/1; 25-dihydroxyvitamin D3 receptor/vitamin D1; 25- dihydroxyvitamin D3 receptor/vitamin D3 receptor; VDR elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of VCP. No significant cross-reactivity or interference between VCP and analogues was observed.
Sequence Length	477
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.625-40ng/ml
Sensitivity	0.375ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level VCP 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 VCP 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 VDR 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	0.625	1.25	2.5	5	10	20	40
Y	OD450	0.088	0.156	0.229	0.39	0.606	1.041	1.677	2.706

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for VDR elisa kit

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

NCBI AND UNIPROT INFORMATION

NCBI GI #	323714265
NCBI GeneID	7421
NCBI Accession #	NP_001017536.1
NCBI GenBank Nucleotide #	NM_001017536.1
Molecular Weight	53,883 Da
NCBI Official Full Name	vitamin D3 receptor isoform VDRB1
NCBI Official Synonym Full Names	vitamin D (1,25- dihydroxyvitamin D3) receptor
NCBI Official Symbol	VDR
NCBI Official Synonym Symbols	NR1I1; PPP1R163
NCBI Protein Information	vitamin D3 receptor
UniProt Protein Name	Vitamin D3 receptor
UniProt Gene Name	VDR
UniProt Synonym Gene Names	NR1I1; VDR
UniProt Entry Name	VDR_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/vdr-human-elisa-kits/vitamin-d3-receptor/100820>