

Human Vitamin D Binding Protein (DBP) ELISA Kit | DBP elisa kit

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CATALOG #
AAA137068

REACTIVITY
Human

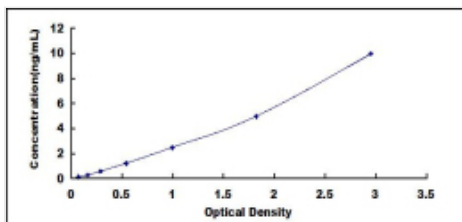
PRODUCT SYNONYMS

Vitamin D Binding Protein (DBP); Human Vitamin D Binding Protein (DBP) ELISA Kit; GC; VDBG; VDBP; Group-Specific Component; Gc-globulin; DBP elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Vitamin D Binding Protein (DBP). No significant cross-reactivity or interference between Vitamin D Binding Protein (DBP) and analogues was observed.
Sequence Length	474
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.072ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Vitamin D Binding Protein (DBP) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Vitamin D Binding Protein (DBP) 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 DBP 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 Vitamin D Binding Protein (DBP). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Vitamin D Binding Protein (DBP). 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 Vitamin D Binding Protein (DBP), 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 Vitamin D Binding Protein (DBP) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for DBP elisa kit	Metabolic pathway; Tumor immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	324021743
NCBI GeneID	2638
NCBI Accession #	NP_001191235.1
NCBI GenBank Nucleotide #	NM_001204306.1
UniProt Accession #	P02774; Q16309; Q16310; Q53F31; Q6GTG1; B4DPP2; D6RAK8
Molecular Weight	55,123 Da
NCBI Official Full Name	vitamin D-binding protein isoform 1
NCBI Official Synonym Full Names	group-specific component (vitamin D binding protein)
NCBI Official Symbol	GC
NCBI Official Synonym Symbols	DBP; GRD3; VDBG; VDBP; DBP/GC; HEL-S-51
NCBI Protein Information	vitamin D-binding protein
UniProt Protein Name	Vitamin D-binding protein
UniProt Gene Name	GC
UniProt Synonym Gene Names	DBP; VDB
UniProt Entry Name	VTDB_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://www.aaabiotech.com/human-elisa-kits/vitamin-d-binding-protein-dbp/137068>