

Human Vitamin D Binding Protein (DBP) CLIA Kit | DBP clia kit

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CATALOG #	REACTIVITY	APPLICATIONS
AAA189043	Human	CLIA (Chemiluminescence Immunoassay)

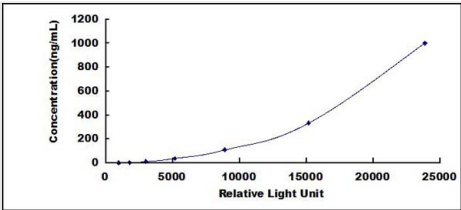
PRODUCT SYNONYMS

Vitamin D Binding Protein (DBP); Human Vitamin D Binding Protein (DBP) CLIA Kit; Vitamin D Binding Protein; GC; VDBG; VDBP; Group-Specific Component; Gc-globulin; DBP clia 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	493
Assay Type	Double-antibody Sandwich
Samples	Serum, plasma and other biological fluids
Detection Range	1.37-1,000ng/mL
Sensitivity	The minimum detectable dose of this kit is typically less than 0.59ng/mL
Applicable Applications for DBP clia kit	CLIA (Chemiluminescence Immunoassay)
Precision	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. $CV(\%) = SD/mean \times 100$ Intra-Assay: CV<10% Inter-Assay: CV<12%
Test Principle	The microplate 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 microplate 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. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the Vitamin D Binding Protein (DBP) level in the sample or standard.
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	324021745
NCBI GeneID	2638
NCBI Accession #	NP_001191236.1
NCBI GenBank Nucleotide #	NP_001191236.1
UniProt Accession #	P02774
NCBI Official Full Name	vitamin D-binding protein isoform 3
NCBI Official Synonym Full Names	GC vitamin D binding protein
NCBI Official Symbol	GC
NCBI Official Synonym Symbols	DBP; VDB; GRD3; VDBG; VDBP; GcMAF; DBP/GC; Gc-MAF; DBP-maf; 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://stage.aaabiotech.com/human-clia-kits/vitamin-d-binding-protein-dbp/189043>