Vitamin D Binding (DBP) ELISA Kit for Cavy

PRODUCT OVERVIEW

Product Name	Vitamin D Binding Protein (DBP), ELISA Kit
Full Product Name	Cavy Vitamin D Binding Protein ELISA Kit
Product Gene Name	DBP elisa kit
Species Reactivity	Cavy
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	52,964 Da
Chromosome Location	Chromosome: 4; NC_000004.11 (72607410..72671237, complement). Location: 4q12-q13
OMIM	139200
3D Structure	ModBase 3D Structure for P02774
Related Product Information for DBP elisa kit	MBS009072 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Vitamin D Binding Protein (DBP) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing DBP. The ELISA analytical biochemical technique of the MBS009072 kit is based on DBP antibody-DBP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DBP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DBP. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of DBP elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DBP. It may not necessarily be applicable to this product.

NCBI GI #	324021745
NCBI GeneID	2638
NCBI Accession #	NP_001191236.1
UniProt Primary Accession #	P02774
UniProt Secondary Accession #	Q16309; Q16310; Q53F31; Q6GTG1; B4DPP2; D6RAK8
UniProt Related Accession #	P02774
GenBank Nucleotide #	NM_001204307.1
NCBI Official Full Name	vitamin D-binding protein isoform 3
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
UniProt Protein Name	Vitamin D-binding protein

UniProt Synonym Protein Names	Gc-globulin; Group-specific component
Protein Family	D site-binding protein
UniProt Gene Name	GC
UniProt Synonym Gene Names	DBP; VDB
UniProt Entry Name	VTDB_HUMAN
NCBI Protein Information	vitamin D-binding protein; VDB; gc-globulin; vitamin D-binding alpha-globulin
NCBI Summary for DBP	The protein encoded by this gene belongs to the albumin gene family. It is a multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid and on the surface of many cell types. It binds to vitamin D and its plasma metabolites and transports them to target tissues. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Feb 2011]
UniProt Comments for DBP	GC: Multifunctional protein found in plasma, ascitic fluid, cerebrospinal fluid, and urine and on the surface of many cell types. In plasma, it carries the vitamin D sterols and prevents polymerization of actin by binding its monomers. DBP associates with membrane-bound immunoglobulin on the surface of B-lymphocytes and with IgG Fc receptor on the membranes of T-lymphocytes. Belongs to the ALB/AFP/VDB family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 4q12-q13 Cellular Component: extracellular space; lysosomal lumen; extracellular region; cytosol Molecular Function: vitamin D binding; actin binding; vitamin transporter activity Biological Process: steroid metabolic process; vitamin transport; vitamin D metabolic process Disease: Graves Disease, Susceptibility To, 1
Research Articles on DBP	**1.** Data suggest that plasma VDBP is reduced in subjects with oral squamous cell carcinoma (OSCC; in Taiwanese subjects with at least 5-year history of betel nut chewing) as compared to normal subjects; thus, VDBP has potential as biomarker in OSCC.
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