

Human DBP Antibody Pair Set

Catalog No.	E-KAB-0250	Applications	ELISA
Synonyms	helix destabilizing protein;DNA unwinding protein;SSB;single stranded DNA binding protein		

Kit components & Storage

Title	Specifications	Storage
Human DBP Capture Antibody	1 vial, 100 μg	Store at -20°C for one year. Avoid freeze / thaw cycles.
Human DBP Detection Antibody (Biotin)	1 vial, 50 μL	Store at -20°C for one year. Avoid freeze / thaw cycles.

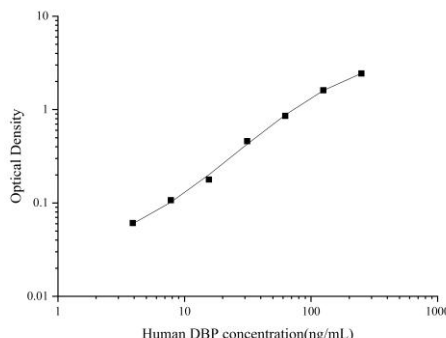
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

Items		Characteristic (E-KAB-0250)	
		Human DBP Capture Antibody	Human DBP Detection Antibody (Biotin)
Immunogen Information	Immunogen	Recombinant Human DBP protein	Recombinant Human DBP protein
	Swissprot	P02774	
Product details	Reactivity	Human	Human
	Host	Rabbit	Rabbit
	Conjugation	Unconjugated	Biotin
	Concentration	0.5mg/mL	/
	Buffer	PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4	PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4
	Purify	Protein A or G	Protein A or G
	Specificity	Detects Human DBP in ELISAs.	

Applications

Human DBP Sandwich ELISA Assay:

	Recommended Concentration/Dilution	Reagent	Images																
ELISA Capture	0.5-4µg/mL	Human DBP Capture Antibody	 <p>The graph is a log-log plot of Optical Density versus Human DBP concentration (ng/mL). The x-axis ranges from 1 to 1000 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human DBP increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human DBP concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>0.05</td> </tr> <tr> <td>10</td> <td>0.1</td> </tr> <tr> <td>20</td> <td>0.2</td> </tr> <tr> <td>50</td> <td>0.5</td> </tr> <tr> <td>100</td> <td>1.0</td> </tr> <tr> <td>200</td> <td>2.0</td> </tr> <tr> <td>500</td> <td>5.0</td> </tr> </tbody> </table>	Human DBP concentration (ng/mL)	Optical Density	5	0.05	10	0.1	20	0.2	50	0.5	100	1.0	200	2.0	500	5.0
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ELISA Detection	1:1000-1:10000	Human DBP Detection Antibody (Biotin)																	

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

Vitamin D binding protein is a sparsely glycosylated serum protein responsible for highly specific binding and tissue-specific delivery of vitamin D and its metabolites. In addition, it is also an actin scavenger, and is the precursor to the immunomodulatory protein, Gc-MAF. Vitamin D binding protein has been proposed to have significant roles in C5a chemotaxis, osteoclast development and possibly in macrophage activation/recruitment.