Elabscience®

Human ALB Antibody Pair Set

Catalog No.	E-KAB-0011	Applications	ELISA
Synonyms	Serum albumin, Alb, Alb1, Alb-1		

Kit components & Storage

Title	Specifications	Storage
Human ALB Capture Antibody	1 vial, 100 µ g	Store at -20° C for one year.
		Avoid freeze / thaw cycles.
Human ALB 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-0011)		
		Human ALB Capture Antibody	Human ALB Detection Antibody	
			(Biotin)	
Immunogen	Immunogen	Native Protein	Native Protein	
Information	Swissprot	P02768		
Product details	Reactivity	Human	Human	
	Host	Rabbit	Rabbit	
	Conjugation	Unconjugated	Biotin	
	Concentration	0.5mg/mL	/	
	Buffer	PBS with 0.04% Proclin 300, 50%	PBS with 0.04% Proclin 300, 1%	
		glycerol, pH 7.4	protective protein, 50% glycerol, pH	
			7.4	
	Purify	Antigen Affinity	Antigen Affinity	
	Specificity	Detects Human ALB in ELISAs.		

For Research Use Only

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Applications

Human ALB Sandwich ELISA Assay:

	Recommended	Reagent	Images
	Concentration/Dilution		
ELISA	0.5-4µg/mL	Human ALB Capture Antibody	
Capture			
ELISA	1:1000-1:10000	Human ALB Detection Antibody	Optical Density
Detection		(Biotin)	
			0.01 0.1 0.1 0.1 0.1 0.1 0.1 0.1

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

Background

Binds water,Ca2+,Na+,K+,fatty acids,hormones,bilirubin and drugs (Probable). Its main function is the regulation of the colloidal osmotic pressure of blood (Probable). Major zinc transporter in plasma,typically binds about 80% of all plasma zinc (PubMed:19021548).

Major calcium and magnesium transporter in plasma, binds approximately 45% of circulating calcium and magnesium in plasma (By similarity).

Potentially has more than two calcium-binding sites and might additionally bind calcium in a non-specific manner (By similarity).

The shared binding site between zinc and calcium at residue Asp-273 suggests a crosstalk between zinc and calcium transport in the blood (By similarity).

The rank order of affinity is zinc > calcium > magnesium (By similarity).

Binds to the bacterial siderophore enterobactin and inhibits enterobactin-mediated iron uptake of E.coli from ferric transferrin, and may thereby limit the utilization of iron and growth of enteric bacteria such as E.coli (PubMed:6234017).

Does not prevent iron uptake by the bacterial siderophore aerobactin