

## 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 µg | Store at -20℃ for one year.<br>Avoid freeze / thaw cycles. |
| Human ALB Detection Antibody (Biotin) | 1 vial, 50 µL  | Store at -20℃ for one year.<br>Avoid freeze / thaw cycles. |

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

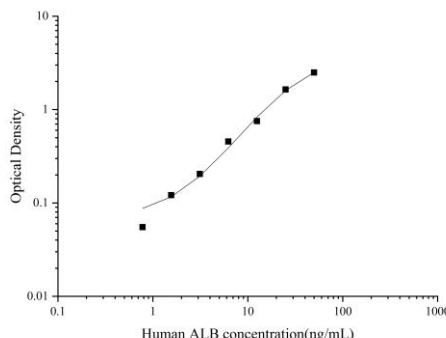
### Product Information

| Items                 |               | Characteristic (E-KAB-0011)                      |   |
|-----------------------|---------------|--|---|
|                       |               | Human ALB Capture Antibody                       | Human ALB Detection Antibody (Biotin)                                   |
| Immunogen Information | Immunogen     | Native Protein                                   | Native Protein  |
|                       | 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% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
|                       | Purify        | Antigen Affinity                                 | Antigen Affinity  |
|                       | Specificity   | Detects Human ALB in ELISAs.                     |   |

### For Research Use Only

## Applications

### Human ALB Sandwich ELISA Assay:

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

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

## Background

Binds water, Ca<sup>2+</sup>, Na<sup>+</sup>, K<sup>+</sup>, 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

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