

## Mouse Anti-Bovine ALB Monoclonal Antibody

**Cat. No.** CAB-2494MB    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Bovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Antigen Description</b> | Albumin functions primarily as a carrier protein for steroids, fatty acids, and thyroid hormones and plays a role in stabilizing extracellular fluid volume. Mutations in this gene on chromosome 4 result in various anomalous proteins. Albumin is a globular unglycosylated serum protein of molecular weight 65,000. Albumin is synthesized in the liver as preproalbumin which has an N-terminal peptide that is removed before the nascent protein is released from the rough endoplasmic reticulum. The product, proalbumin, is in turn cleaved in the Golgi vesicles to produce the secreted albumin. |
| <b>Immunogen</b>           | This protein A purified monoclonal antibody was produced after repeated immunizations of balb/c mice with bovine serum albumin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Clone Number</b>        | MARL017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reactivity</b>          | bovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Physical State</b>      | Liquid (sterile filtered)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Buffer</b>              | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Preservative</b>  | 0.01% (w/v) Sodium Azide                                                                                                                                                                                                                                    |
| <b>Concentration</b> | 0.72 mg/ml (by UV absorbance at 280 nm)                                                                                                                                                                                                                     |
| <b>Application</b>   | ELISA: 1:120,000; WB: 1:2,000 - 1:10,000; IP: 1:100; IHC: 1:1,000 - 1:5,000; OTHER: User Optimized                                                                                                                                                          |
| <b>Storage</b>       | Store vial at -20°C prior to opening. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage aliquot contents and freeze at -20°C or below. Avoid cycles of freezing and thawing. |

## GENE INFORMATION

|                        |                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ALB albumin [ Homo sapiens ]                                                                                                           |
| <b>Official Symbol</b> | ALB                                                                                                                                    |
| <b>Synonyms</b>        | ALB; DKFZp779N1935; PRO0883; PRO0903; PRO1341; albumin; serum albumin; growth-inhibiting protein 20; cell growth inhibiting protein 42 |
| <b>Gene ID</b>         | 213                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_000477                                                                                                                              |
| <b>Protein Refseq</b>  | NP_000468                                                                                                                              |
| <b>MIM</b>             | 103600                                                                                                                                 |
| <b>UniProt ID</b>      | P02768                                                                                                                                 |
| <b>Chromosome</b>      | 4q11-q13                                                                                                                               |

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|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Location</b> |                                                                                                                                                                                                         |
| <b>Pathway</b>  | Hemostasis; Lipid and lipoprotein metabolism.                                                                                                                                                           |
| <b>Function</b> | DNA binding; antioxidant activity; copper ion binding; drug binding; fatty acid binding; metal ion binding; contributes_to oxygen binding; protein binding; pyridoxal phosphate binding; toxin binding. |

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