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Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA)

Bovine Serum Albumin Antibody
Catalog # ASR4853

Specification

Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA) - Product Information

Host	**Mouse**
Conjugate	**Unconjugated**
Target Species	**Bovine**
Reactivity	**Bovine**
Clonality	**Monoclonal**
Application	**WB, IHC, E, IP, I, LCI**
Application Note	**Anti-Bovine Serum Albumin antibody has been tested by ELISA and Western Blot. The antibody may be suitable for other applications, although no supporting data is available.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
Immunogen	**Anti-Bovine Serum Albumin antibody was produced by repeated immunizations of balb/c mice with bovine serum albumin.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA) - Additional Information

Gene ID 280717

Other Names
280717

Purity
Bovine Serum Albumin monoclonal antibody was purified from concentrated tissue culture supernate by Protein A chromatography and reacts with bovine serum albumin. The antibody recognizes a 66 kDa band corresponding to bovine serum albumin monomer. No cross reactivity is detected against other serum proteins by immunoblot. No reactivity is detected by ELISA against human serum albumin or ovalbumin.

Storage Condition
Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA) - Protein Information

Name ALB

Function
Binds water, Ca(2+), Na(+), K(+), fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. Major zinc transporter in plasma, typically binds about 80% of all plasma zinc (By similarity). Major calcium and magnesium transporter in plasma, binds approximately 45% of circulating calcium and magnesium in plasma (Probable). Potentially has more than two calcium-binding sites and might additionally bind calcium in a non-specific manner (PubMed:22677715). The shared binding site between zinc and calcium at residue Asp-272 suggests a crosstalk between zinc and calcium transport in the blood (Probable). The rank order of affinity is zinc > calcium > magnesium (Probable). Binds to the bacterial siderophore enterobactin and inhibits enterobactin- mediated iron uptake of E.coli, 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 (PubMed:6234017).

Cellular Location
Secreted.

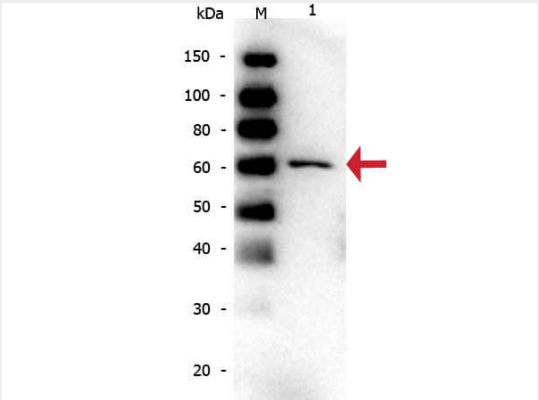
Tissue Location
Plasma.

Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA) - Images



Western Blot of Mouse anti-Bovine Serum Albumin Monoclonal Antibody. Lane 1: Bovine Serum

Albumin. Load: 50 ng per lane. Primary antibody: Bovine Serum Albumin antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase mouse secondary antibody at 1:40,000 for 30 min at RT. Block: 0.75% Casein for 30 min at RT. Predicted/Observed size: 60 kDa, 60 kDa for Bovine Serum Albumin.

Anti-Bovine Serum Albumin (MOUSE) Monoclonal Antibody (BSA) - Background

Bovine Serum Albumin antibody detects BSA. Serum albumin is the main protein of plasma. It has a good binding capacity for water, Ca2+, Na+, K+, fatty acids, hormones, bilirubin and drugs. Its main function is the regulation of the colloidal osmotic pressure of blood. ALB is the major zinc transporter in plasma; it typically binds about 80% of all plasma zinc. BSA antibody is ideal for investigators involved in Cell Signaling, Neuroscience and Signal Transduction research.