Monoclonal Anti-Bovine Serum Albumin (BSA) (mouse IgG2a isotype) is produced by the fusion of mouse myeloma cells and splenocytes from an immunized mouse. Bovine serum albumin was used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Sigma Stock No. ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Sigma Stock No. ISO-2). The product is provided as a liquid with 0.1% sodium azide (see MSDS)* as a preservative.

Specificity

Monoclonal Anti-BSA recognizes the 67 kD band of SDS-denatured and reduced BSA using an immunoblotting technique. The antibody is specific for bovine serum albumin and is highly cross reactive with goat and sheep serum albumins. The product is somewhat less cross reactive with dog, turkey and horse serum albumins. Monoclonal Anti-BSA does not cross-react with human, rabbit, guinea pig, chicken, hamster, pig, mouse, cat, pigeon, rat or donkey serum albumins, or with chicken and turkey egg albumins.

Working Dilution

A working dilution of 1:1,000 was determined by an ELISA using 10 µg/ml of BSA as the coating solution. It has been noted that BSA is adsorbed most effectively on polyvinyl microtiter plates.

In order to obtain best results, it is recommended that each individual user determine their working dilution by titration assay.

Description

Bovine serum albumin is the major protein produced by the liver and represents more than half of the total protein found in serum. BSA is found in many biological substances such as serum supplemented cell culture media and its products, in foods and forensic preparations. A monoclonal antibody of species specificity may prove useful in the identification of bovine serum albumin.

Uses

Monoclonal Anti-Bovine Serum Albumin may be used for determination and quantification of BSA by ELISA, competitive ELISA and immunodot blot. The antibody may be used for the immunoaffinity purification and removal of BSA from various biological fluids such as cell culture media and in vitro-produced monoclonal antibodies.

Storage

For continuous use, store at 2-8°C. For extended storage, solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

*Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.