

BSA (A23-A/D3): sc-65701

BACKGROUND

Bovine serum albumin (BSA) is an abundant plasma protein in bovines that is important for maintaining osmotic pressure in blood plasma for proper distribution of body fluids between intravascular compartments and body tissues. BSA is a common buffer component for immunoglobulin type assays due to good solubility characteristics for water, Ca^{2+} , Na^+ , K^+ , fatty acids, hormones and bilirubin. BSA makes up about half of the protein in plasma and represents the most stable and soluble protein in the plasma. It is a suitable reagent for laboratories developing immunoassays, mostly due to its availability, solubility and the numerous functional groups present for coupling. The BSA component contains several lysines that are capable of reacting with conjugation sites of linkers, making it applicable as a carrier protein for antigenic compounds.

REFERENCES

1. Makinodan, T., et al. 1960. Demonstration of a normal serum macroglobulin coprecipitating with the bovine serum albumin (BSA)-chicken anti-BSA precipitate. *J. Immunol.* 85: 439-446.
2. Terman, D.S., et al. 1976. Specific removal of bovine serum albumin (BSA) antibodies *in vivo* by extracorporeal circulation over BSA immobilized on nylon microcapsules. *J. Immunol.* 116: 1337-1341.
3. Angelisova, P., et al. 1986. The characteristics of monoclonal antibodies against human albumin. *Folia Biol.* 32: 289-294.
4. Fuchtenbusch, M., et al. 1997. Antibodies to bovine serum albumin (BSA) in type 1 diabetes and other autoimmune disorders. *Exp. Clin. Endocrinol. Diabetes* 105: 86-91.
5. Ediriwickrema, C.P., et al. 2000. Natural killer cell-dependent immunoglobulin G_{2a} anti-bovine serum albumin (BSA) response elicited by high molecular weight dextran-BSA conjugates associated with dextran-mediated macrophage-natural killer cell interaction. *Immunology* 101: 474-483.
6. Kooser, A., et al. 2003. Investigation of the antigen antibody reaction between anti-bovine serum albumin (a-BSA) and bovine serum albumin (BSA) using piezoresistive microcantilever based sensors. *Biosens. Bioelectron.* 19: 503-508.
7. Taguchi, Y., et al. 2004. Binding of estrogen receptor with estrogen conjugated to bovine serum albumin (BSA). *Nucl. Recept.* 2: 5.
8. Haroun, M. 2005. Bovine serum albumin antibodies as a disease marker for hepatitis E virus infection. *J. Biomed. Biotechnol.* 2005: 316-321.

SOURCE

BSA (A23-A/D3) is a mouse monoclonal antibody raised against purified bovine serum albumin.

PRODUCT

Each vial contains 200 μg IgG $_{2a}$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

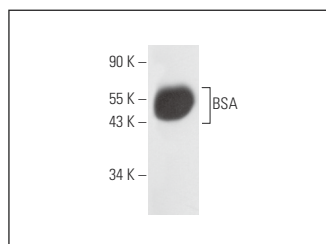
APPLICATIONS

BSA (A23-A/D3) is recommended for detection of Bovine Serum Albumin of bovine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)] and immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

Molecular Weight of BSA: 67 kDa.

Positive Controls: EBTr cell lysate: sc-24669 or bovine PBL whole cell lysate.

DATA



BSA (A23-A/D3): sc-65701. Western blot analysis of BSA.

SELECT PRODUCT CITATIONS

1. Raheja, R., et al. 2014. The ability of TRIM3 to induce growth arrest depends on RING-dependent E3 ligase activity. *Biochem. J.* 458: 537-545.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.