Human/Mouse Serum Albumin Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3329

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Serum Albumin in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse Serum Albumin
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

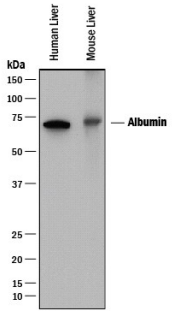
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Immunocytochemistry	5-15 µg/mL	See Below
Simple Western	5-10 µg/mL	See Below

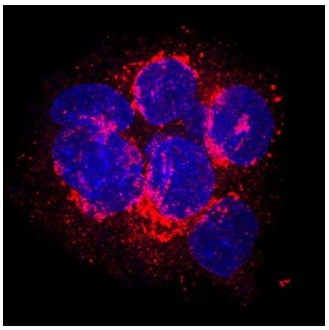
DATA

Western Blot



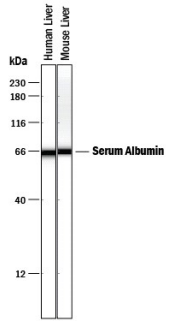
Detection of Human and Mouse Serum Albumin by Western Blot. Western blot shows lysates of human liver tissue and mouse liver tissue. PVDF membrane was probed with 0.1 µg/mL of Goat Anti-Human/Mouse Serum Albumin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3329) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for Serum Albumin at approximately 65-70 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



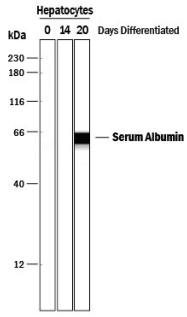
Serum Albumin in HepG2 Human Cell Line. Serum Albumin was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line using Goat Anti-Human/Mouse Serum Albumin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3329) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Goat IgG Secondary Antibody (red; Catalog # NL001) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Simple Western



Detection of Human and Mouse Albumin by Simple Western™. Simple Western lane view shows lysates of human liver tissue and mouse liver tissue, loaded at 0.2 mg/mL. A specific band was detected for Albumin at approximately 64 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse Serum Albumin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3329) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Simple Western



Detection of Human Albumin by Simple Western™. Simple Western lane view shows lysates of iBJ6 human induced pluripotent stem cell line undifferentiated (0) and hepatocyte differentiated for 14 and 20 days, loaded at 0.2 mg/mL. A specific band was detected for Albumin at approximately 64 kDa (as indicated) using 10 µg/mL of Goat Anti-Human/Mouse Serum Albumin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3329) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

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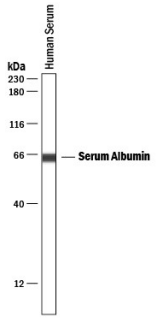
Simple Western



Detection of Human Albumin by Simple Western™. Simple Western lane view shows lysates of human serum, loaded at 1:25000. A specific band was detected for Albumin at approximately 64 kDa (as indicated) using 5 µg/mL of Goat Anti-Human/Mouse Serum Albumin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3329) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Albumins are a family of globular proteins, the most common of which are serum albumins. Albumins are commonly found in blood plasma, and are unique from other blood proteins in that they are not glycosylated. Albumin is a 65-70 kDa protein with serum albumin being the main protein of human blood plasma. It binds water, cations (such as Ca2+, Na+ and K+), fatty acids, hormones, bilirubin, thyroxine (T4) and pharmaceuticals (including barbiturates) - its main function is to regulate the colloidal osmotic pressure of blood. Albumin comprises three homologous domains that assemble to form a heart-shaped molecule. Each domain is a product of two subdomains that possess common structural motifs. The principal regions of ligand binding to human serum albumin are located in hydrophobic cavities in subdomains IIA and IIIA, which exhibit similar chemistry. Structurally, the serum albumins are similar, each domain containing five or six internal disulfide bonds.

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