ALB (F-10): sc-271605

**BACKGROUND**
Serum albumin (ALB), the main protein in plasma, has a very good binding capacity for water, fatty acids, calcium, sodium, bilirubin, hormones, potassium and drugs. The primary function of ALB is to regulate the colloidal osmotic pressure of blood. 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 form of albumin. Mutations in the ALB gene may result in familial dysalbuminemic hyperthyroxinemia (FDH), a form of euthyroid hyperthyroxinemia that is due to increased affinity of ALB for T4. FDH is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian populations.

**CHROMOSOMAL LOCATION**
Genetic locus: ALB (human) mapping to 4q13.3; ALB (mouse) mapping to 5 E1.

**SOURCE**
ALB (F-10) is a mouse monoclonal antibody raised against amino acids 39-164 mapping near the N-terminus of serum albumin of human origin.

**PRODUCT**
Each vial contains 200 µg IgG, kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.
ALB (F-10) is available conjugated to agarose (sc-271605 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-271605 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-271605 PE), fluorescein (sc-271605 FITC), Alexa Fluor® 488 (sc-271605 AF488), Alexa Fluor® 546 (sc-271605 AF546), Alexa Fluor® 594 (sc-271605 AF594) or Alexa Fluor® 647 (sc-271605 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 880 (sc-271605 AF880) or Alexa Fluor® 790 (sc-271605 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**
ALB (F-10) is recommended for detection of ALB of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ALB siRNA (h): sc-45606, ALB siRNA (m): sc-45607, ALB shRNA Plasmid (h): sc-45606-SH, ALB shRNA Plasmid (m): sc-45607-SH, ALB shRNA (h) Lentiviral Particles: sc-45606-V and ALB shRNA (m) Lentiviral Particles: sc-45607-V.

Molecular Weight of ALB: 66 kDa.
Positive Controls: human breast extract: sc-363753, human smooth muscle extract: sc-363778 or Hep G2 cell lysate: sc-2227.

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

**DATA**

**SELECT PRODUCT CITATIONS**
1. Gasimli, L., et al. 2014. Changes in glycosaminoglycan structure on 546 (sc-271605 AF546), 680 (sc-271605 AF680), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 880 (sc-271605 AF880) or Alexa Fluor® 790 (sc-271605 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

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ALB (F-10): sc-271605. Immunoperoxidase staining of formalin fixed, paraffin-embedded human smooth muscle tissue showing cytoplasmic staining of smooth muscle cells and connective tissue and plasma staining (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes and bile duct cells and staining of plasma in blood vessels (B).

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