Product datasheet

Anti-Human Serum Albumin antibody [15C7] ab10241

Overview

Product name: Anti-Human Serum Albumin antibody [15C7]
Description: Mouse monoclonal [15C7] to Human Serum Albumin
Host species: Mouse
Specificity: No cross-reactivity with other human proteins tested. Does not react with bovine serum albumin, egg white albumin or human alpha fetoprotein.

Tested applications: Suitable for: ELISA, WB, ICC/IF, Sandwich ELISA
Species reactivity: Reacts with: Human
Does not react with: Chicken, Cow
Immunogen: Human serum albumin.

General notes: Concentration varies from lot to lot and can be provided on request.
This product was changed from ascites to tissue culture supernatant on 17th October 2017 and product received after this date will be from tissue culture supernatant.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: pH: 7.40
Preservative: 0.09% Sodium azide
Constituent: PBS
Purity: Protein A purified
Clonality: Monoclonal
Clone number: 15C7
Myeloma: Sp2/0
Isotype: IgG2b

Applications

Our Abpromise guarantee covers the use of ab10241 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Serum albumin, the main protein of plasma, has a good binding capacity for 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.

Tissue specificity
Plasma.

Involvement in disease
Defects in ALB are a cause of familial dysalbuminemic hyperthyroxinemia (FDH) [MIM:103600]. FDH is a form of euthyroid hyperthyroxinemia that is due to increased affinity of ALB for T(4). It is the most common cause of inherited euthyroid hyperthyroxinemia in Caucasian population.

Sequence similarities
Belongs to the ALB/AFP/VDB family. Contains 3 albumin domains.

Post-translational modifications
Kenitra variant is partially O-glycosylated at Thr-620. It has two new disulfide bonds Cys-600 to Cys-602 and Cys-601 to Cys-606. Glycated in diabetic patients. Phosphorylation sites are present in the extracellular medium. Acetylated on Lys-223 by acetylsalicylic acid.

Cellular localization
Secreted.

Target

Application | Abreviews | Notes
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ELISA |  | Use at an assay dependent concentration.
WB | ★★★★★ | Use at an assay dependent concentration. Predicted molecular weight: 65 kDa.
ICC/IF | ★★★★ | Use a concentration of 2.5 μg/ml. PubMed: 19497803
Sandwich ELISA |  | Use a concentration of 1 μg/ml. Can be paired for Sandwich ELISA with Rabbit polyclonal to Human Serum Albumin (ab2406).

Images
Anti-Human Serum Albumin antibody [15C7] (ab10241) at 1/2000 dilution (in 5% milk for 1 hour) + Human blood serum at 2 µg

**Secondary**
anti-mouse IgG (H&L)

Developed using the ECL technique.

**Predicted band size:** 65 kDa

**Exposure time:** 5 seconds

Detection of Human Serum Albumin by ab10241 in western blotting.
Lane 1 - human serum albumin, 3 µg.
Lane 2 - normal human serum, ~3 µg of human serum albumin.

ab10241 staining Human Serum Albumin in human embryonic stem cell derived hepatocytes by immunocytochemistry/immunofluorescence.

Cells were fixed in methanol and blocked in 10% BSA for 30 minutes at 20°C. The primary antibody was diluted 1/500 and incubated with the sample for 16 hours at 4°C. An FITC conjugated goat polyclonal to mouse IgG antibody, diluted 1/400, was used as the secondary (green). DAPI used to stain the nuclei (blue).
Standard Curve for Human Serum Albumin (Analyte: Human Serum Albumin protein (ab67670)); dilution range 1pg/ml to 1µg/ml using Capture Antibody Mouse monoclonal [15C7] to Human Serum Albumin (ab10241) at 1µg/ml and Detector Antibody Rabbit polyclonal to Human Serum Albumin (ab2406) at 0.5µg/ml.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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