Product datasheet

Anti-Human Serum Albumin antibody ab2406

2 Abreviews 12 References 3 Images

Overview

Product name: Anti-Human Serum Albumin antibody
Description: Rabbit polyclonal to Human Serum Albumin
Host species: Rabbit
Tested applications: Suitable for: Sandwich ELISA, IHC-P, IHC-Fr
Species reactivity: Reacts with: Human
Immunogen: Purified human albumin.
Positive control: IHC-P: Human liver tissue.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium azide
Constituents: Whole serum, 1% BSA
Purity: Protein A purified
Clonality: Polyclonal
Isotype: IgG
Light chain type: unknown

Applications

Our Abpromise guarantee covers the use of ab2406 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<tr>
<th>Application</th>
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<tbody>
<tr>
<td>Sandwich ELISA</td>
<td></td>
<td>Use a concentration of 0.5 µg/ml. Can be paired for Sandwich ELISA with Mouse monoclonal [15C7] to Human Serum Albumin (ab10241). For sandwich ELISA, use this antibody as Detection at 0.5 µg/ml with Mouse monoclonal [15C7] to Human Serum Albumin (ab10241) as Capture.</td>
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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.

Images
Formalin-fixed, paraffin-embedded human liver tissue stained for Human Serum Albumin using ab2406 at 1/50 dilution in immunohistochemical analysis.

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<td>IHC-P</td>
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<td>Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.</td>
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<tr>
<td>IHC-Fr</td>
<td>★★★</td>
<td>Use at an assay dependent concentration. This antibody may be diluted to a titer of 1/50-1/1000 in an ABC method. We suggest an incubation period of 30 minutes at room temperature.</td>
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Ab2406 staining human normal liver. Staining is localised to the cytoplasm and secreted.

Left panel: with primary antibody at 1 ug/ml. Right panel: isotype control.

Sections were stained using an automated system DAKO Autostainer Plus, at room temperature. Sections were rehydrated and antigen retrieved with the Dako 3-in-1 antigen retrieval buffers citrate pH 6.0 in a DAKO PT Link. Slides were peroxidase blocked in 3% H2O2 in methanol for 10 minutes. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 minutes and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX. Please note that for manual staining we recommend to optimize the primary antibody concentration and incubation time (overnight incubation), and amplification may be re

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.

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