

CYP7A1 Rabbit pAb

Catalog No.: A10615 **23 Publications**

Basic Information

Observed MW

58 kDa

Calculated MW

58 kDa

Category

Primary antibody

Applications

WB,IF/ICC,IHC-P,ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum membrane protein catalyzes the first reaction in the cholesterol catabolic pathway in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body. Polymorphisms in the promoter of this gene are associated with defects in bile acid synthesis.

Recommended Dilutions

WB 1:500 - 1:5000**IF/ICC** 1:50 - 1:200**IHC-P** 1:150 - 1:600**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID

1581

Swiss Prot

P22680

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

CP7A; CYP7; CYPVII; CYP7A1

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

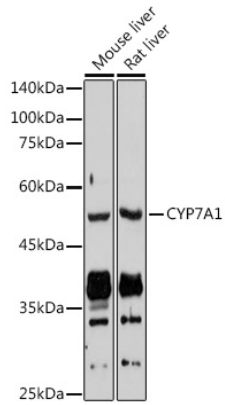
Affinity purification

Storage

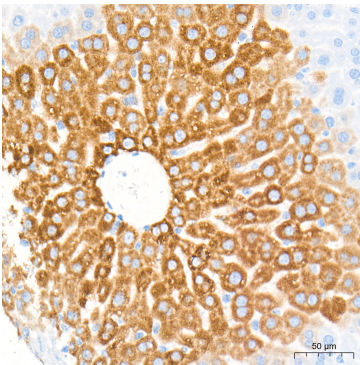
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS, pH 7.3, containing 50% glycerol. Preserved with Proclin300 or sodium azide. May contain 0.05% BSA as specified on the Certificate of Analysis.

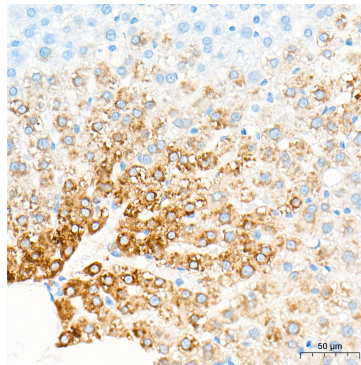
Validation Data



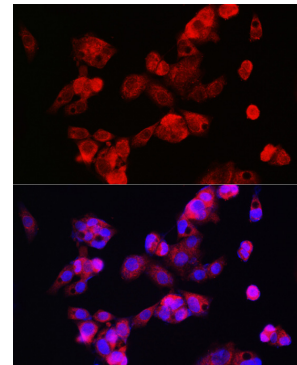
Western blot analysis of various lysates using CYP7A1 Rabbit pAb (A10615) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.



Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using CYP7A1 Rabbit pAb (A10615) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using CYP7A1 Rabbit pAb (A10615) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



Immunofluorescence analysis of HepG2 cells using CYP7A1 Rabbit pAb (A10615) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.