



[Go to Product page](#)

Datasheet for ABIN708986

anti-CYP4A11 antibody (AA 351-450)

3 Images

1 Publication

Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | CYP4A11 |
| Binding Specificity: | AA 351-450 |
| Reactivity: | Human, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CYP4A11 antibody is un-conjugated |
| Application: | ELISA |

Product Details

| | |
|-----------------------|--|
| Immunogen: | KLH conjugated synthetic peptide derived from human Cytochrome P450 4A |
| Isotype: | IgG |
| Specificity: | This antibody detects Mouse 4A10, 4A14, and 4A12A, Human 4A11 and 4A22 |
| Cross-Reactivity: | Human, Mouse |
| Predicted Reactivity: | Rat,Dog,Pig,Horse,Rabbit |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|---|
| Target: | CYP4A11 |
| Alternative Name: | Cytochrome P450 4A (CYP4A11 Products) |

Target Details

Background: Synonyms: 20-HETE synthase, 20-hydroxyeicosatetraenoic acid synthase, CP4AB_HUMAN, Cyp4a1, Cyp4a10, CYP4A11, Cyp4a14, Cyp4a3, CYP4A7, CYP4AII, CYPIVA11, Cytochrome P-450HK-omega, Cytochrome P450 4A1, Cytochrome P450 4A10, Cytochrome P450 4A11, Cytochrome P450 4A14, Cytochrome P450 4A2, Cytochrome P450 4A3, Cytochrome P450 4A7, Cytochrome P450HL-omega, Fatty acid omega-hydroxylase, Lauric acid omega-hydroxylase. 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 protein localizes to the endoplasmic reticulum and hydroxylates medium-chain fatty acids such as laurate and myristate. [provided by RefSeq, Jul 2008].

Gene ID: 1579

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#), [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: WB 1:300-5000
ELISA 1:500-1000
IHC-F 1:100-500
IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: 0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

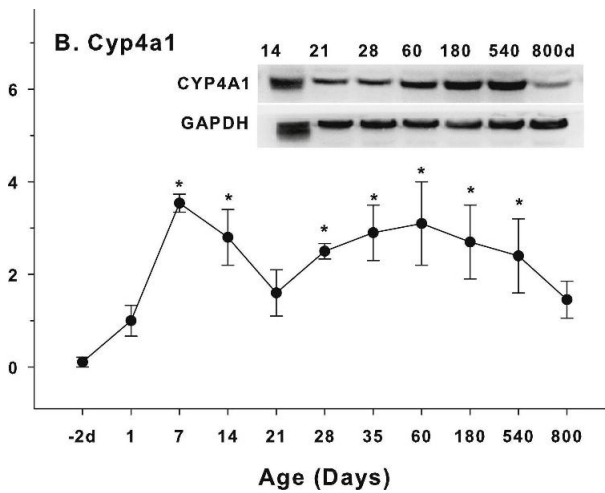
Storage: 4 °C,-20 °C

Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Publications

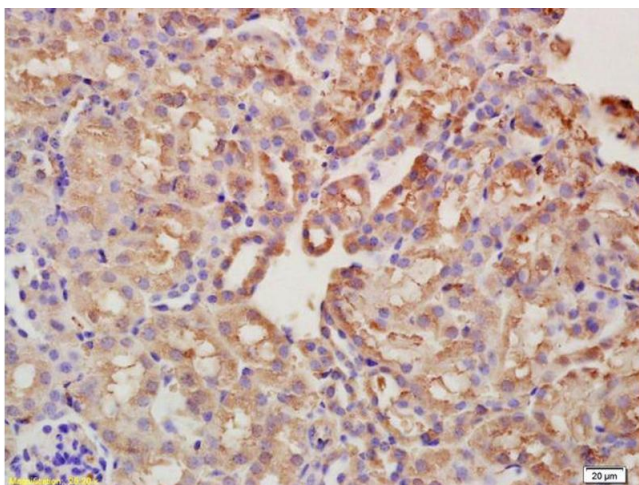
Product cited in: Xu, Hu, Xie, Liu, Wu, Liu: "Age-associated changes of cytochrome P450 and related phase-2 gene/proteins in livers of rats." in: **PeerJ**, Vol. 7, pp. e7429, (2019) ([PubMed](#)).

Images



Western Blotting

Image 1. Age-related expression of CYP-4 family gene/proteins in livers of male rats.(A) PPAR α , (B) Cyp4a1. Livers from male SD rats at the fetus (-2 d before birth), the neonatal stage (1, 7, and 14 d), and at weaning (21 d), at puberty (28 and 35 d), at adult (60 and 180 d), and at aging (540 and 800 d), were collected to extract RNA, followed by qPCR analysis (n = 4-5 for each time point). For western blot insert, the neonatal (14 d), at weaning (21 d), at puberty (28 d), at adult (60 and 180 d), and at aging (540 and 800 d) were collected to extract protein. Aliquoted proteins (30 μ g) were separated on NUPAGE 10 % BT gels and the representative western blot was inserted into the figure (n = 3). The molecular weight for CYP4A1 was 59 kD, and β -actin 43 kD. - figure provided by CiteAb. Source: PMID31396457



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded mouse kidney labeled with Anti-CYP4A1 Polyclonal Antibody, Unconjugated (ABIN708986) at 1:200 followed by conjugation to the secondary antibody and DAB staining

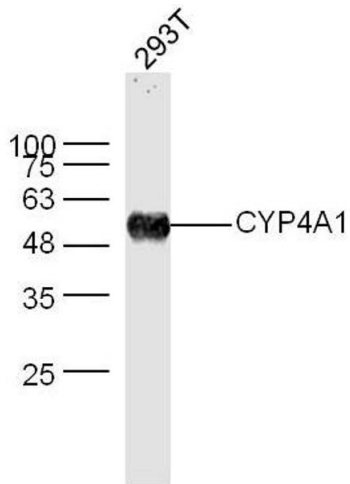


Image 3. 293T lysates probed with CYP4A1 Polyclonal Antibody, Unconjugated at 1:300 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at 1:10000 for 60 min at 37°C.