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Datasheet for ABIN739725 anti-CYP7A1 antibody (AA 351-400)

2 Images

7 Publications



Overview

Quantity:	100 µL
Target:	CYP7A1
Binding Specificity:	AA 351-400
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYP7A1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CYP7A1
Isotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Cross-Reactivity (Details):	Rat
Predicted Reactivity:	Pig,Rabbit,Guinea Pig
Purification:	Purified by Protein A.

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Target Details

Target:	CYP7A1
Alternative Name:	CYP7A1 (CYP7A1 Products)
Background:	Synonyms: CP7A, CYP7, CYPVII, Cholesterol 7-alpha-monooxygenase, Cholesterol 7-alpha- hydroxylase, Cytochrome P45 7A1, CYP7A1 Background: Catalyzes a rate-limiting step in cholesterol catabolism and bile acid biosynthesis by introducing a hydrophilic moiety at position 7 of cholesterol. Important for cholesterol homeostasis.
Gene ID:	1581
UniProt:	P22680
Pathways:	Steroid Hormone Biosynthesis, Carbohydrate Homeostasis, Regulation of Lipid Metabolism by PPARalpha

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	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.
Expiry Date:	12 months

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Guo, Hassan, Zhang, Dong, Ding, Wang, Sun, Zhang, Jiang: "Pyrazinamide Induced Rat Cholestatic Liver Injury through Inhibition of FXR Regulatory Effect on Bile Acid Synthesis and Transport." in: **Toxicological sciences : an official journal of the Society of Toxicology**, Vol. 152, Issue 2, pp. 417-28, (2016) (PubMed).

Kou, Han, Wang, Huang, He, Han, Zhou, Ye, Li: "Synergetic cholesterol-lowering effects of main alkaloids from Rhizoma Coptidis in HepG2 cells and hypercholesterolemia hamsters." in: **Life sciences**, Vol. 151, pp. 50-60, (2016) (PubMed).

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There are more publications referencing this product on: Product page

Western Blotting

Image 1. Mouse liver lysates probed with Anti-CYP7A1 Polyclonal Antibody, Unconjugated (ABIN739725) at 1:300 in 4°C. Followed by conjugation to secondary antibody at 1:5000 90min in 37°C

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Images

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Western Blot

Western Blotting

Image 2. The results of qPCR showed that high fat diet (HD) significantly decreased the expression of LXRα, ABCG5, ABCG8, SR-BI, CYP7A1 and LCAT,and CMS alone significantly elevated the expression of LXRα, ABCG5, ABCG8, and SR-BI, while CMS + HD significantly decreased the expression of ABCG5, ABCG8, CYP7A1 and LCAT. The data of mRNA expression were presented as mean ± SEM. *P<0.05 and **P<0.01: compared to Control, P<0.01: compared to CMS group, all with one-way ANOVA. The results of Western blot showed similar trends. The blots shown on gels respectively represented the group of Control, CMS, CMS + HD, HD. - figure provided by CiteAb. Source: PMID24885743