#### For Research Use Only

# CYP7A1 Polyclonal antibody

Catalog Number: 18054-1-AP 17 Publications



**Basic Information** 

Catalog Number: GenBank Accession Number:

18054-1-AP BC101777 GeneID (NCBI): Size: 150ul, Concentration: 450 ug/ml by 1581

Nanodrop: **UNIPROT ID:** P22680 Rabbit Full Name:

Isotype: cytochrome P450, family 7, subfamily

IgG A, polypeptide 1 Immunogen Catalog Number: Calculated MW: 504 aa, 58 kDa AG12572 Observed MW:

58 kDa

**Applications** 

**Tested Applications:** WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human Cited Species:

human, mouse, rat, hamster

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Positive Controls:

WB: HepG2 cells, HuH-7 cells, LO2 cells, SMMC-7721

**Purification Method:** 

WB 1:1000-1:6000

IF/ICC 1:50-1:500

IHC 1:50-1:500

Antigen affinity purification

Recommended Dilutions:

IHC: human liver tissue, human liver cancer tissue

IF/ICC: HepG2 cells,

## **Background Information**

CYP7A1 (Cytochrome P450 Family 7 Subfamily A Member 1), is a cholesterol 7alpha-hydroxylase, catalyzing the first and rate-limiting step in the neutral or classic pathway for bile acid biosynthesis. CYP7A1 is a postulated gene modifier of colorectal cancer risk and target for the therapeutic bile acid, ursodeoxycholic acid (UDCA). The CYP7A1 enzyme controls the rate-limiting step of the catabolism of cholesterol into bile acids in the liver.

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Disi Bai	29722875	Toxicol Sci	WB
Shinkichi Kosaka	35367370	J Steroid Biochem Mol Biol	IHC
Yao Jiang	29922118	Food Nutr Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

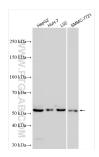
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com W: ptglab.com

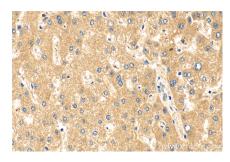
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### **Selected Validation Data**

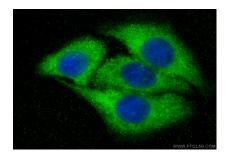


Various lysates were subjected to SDS PAGE followed by western blot with 18054-1-AP (CYP7A1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human liver tissue slide using 18054-1-AP (CYP7A1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human liver tissue slide using 18054-1-AP (CYP7A1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using CYP7A1 antibody (18054-1-AP) at dilution of 1:200 and Multi-rAb CoraLite ® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).