

For Research Use Only

# CYP7A1 Polyclonal antibody

Catalog Number: 18054-1-AP **10 Publications**



## Basic Information

<b>Catalog Number:</b> 18054-1-AP	<b>GenBank Accession Number:</b> BC101777	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 450 µg/ml	<b>GeneID (NCBI):</b> 1581	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P22680	
<b>Isotype:</b> IgG	<b>Full Name:</b> cytochrome P450, family 7, subfamily A, polypeptide 1	
<b>Immunogen Catalog Number:</b> AG12572	<b>Calculated MW:</b> 504 aa, 58 kDa	
	<b>Observed MW:</b> 58 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HepG2 cells, mouse liver tissue, rat liver tissue, HuH-7 cells, L02 cells, SMMC-7721 cells
<b>Cited Applications:</b> WB, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse, Hamster	

## Background Information

CYP7A1 (Cytochrome P450 Family 7 Subfamily A Member 1), is a cholesterol 7 $\alpha$ -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

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

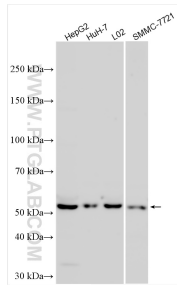
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## Selected Validation Data



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.