

For Research Use Only

# CYP27A1 Polyclonal antibody

Catalog Number: 14739-1-AP **17 Publications**



## Basic Information

|  |   |   |
|--|---|---|
| <b>Catalog Number:</b><br>14739-1-AP   | <b>GenBank Accession Number:</b><br>BC051851                                | <b>Purification Method:</b><br>Antigen affinity purification        |
| <b>Size:</b><br>150ul , Concentration: 300 µg/ml by Nanodrop and 160 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>1593   | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:100-1:400 |
| <b>Source:</b><br>Rabbit   | <b>Full Name:</b><br>cytochrome P450, family 27, subfamily A, polypeptide 1 |   |
| <b>Isotype:</b><br>IgG   | <b>Calculated MW:</b><br>60 kDa   |   |
| <b>Immunogen Catalog Number:</b><br>AG6408   | <b>Observed MW:</b><br>60-65 kDa  |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>IHC, WB, ELISA  | <b>Positive Controls:</b><br>WB : mouse liver tissue, NIH/3T3 cells<br>IHC : human liver cancer tissue, human liver tissue |
| <b>Cited Applications:</b><br>IHC, WB  |  |
| <b>Species Specificity:</b><br>human, mouse, rat   |  |
| <b>Cited Species:</b><br>human, chicken, rat, mouse, rabbit, pig   |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## Background Information

Mitochondrial sterol 27-hydroxylase (CYP27A1) catalyzes oxidative cleavage of the sterol side chain in the bile acid biosynthetic pathway in the liver and 27-hydroxylation of cholesterol in most tissues (PMID:17088262). It belongs to the cytochrome P450 family. CYP27A1 catalyses an important sterol elimination pathway in the macrophage, and consequently may protect against atherosclerosis.

## Notable Publications

| Author       | Pubmed ID | Journal           | Application |
|--------------|-----------|-------------------|-------------|
| Demin Cai    | 27763549  | Nutrients         | WB          |
| Xiaodong Wei | 33113499  | Phytomedicine     | WB          |
| Sisi Yan     | 35587527  | J Agric Food Chem | WB          |

## Storage

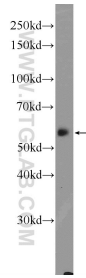
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

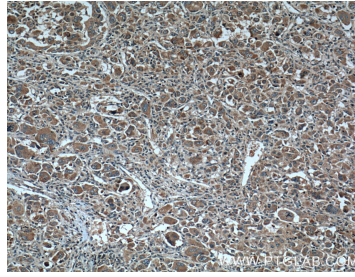
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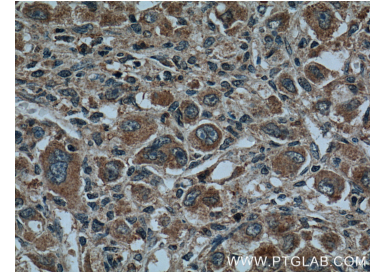
## Selected Validation Data



mouse liver tissue were subjected to SDS PAGE followed by western blot with 14739-1-AP (CYP27A1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14739-1-AP (CYP27A1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 14739-1-AP (CYP27A1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).