

For Research Use Only

CYP27A1 Polyclonal antibody

Catalog Number: 14739-1-AP

21 Publications



Basic Information

Catalog Number:

14739-1-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG6408

GenBank Accession Number:

BC051851

GeneID (NCBI):

1593

UNIPROT ID:

Q02318

Full Name:

cytochrome P450, family 27, subfamily A, polypeptide 1

Calculated MW:

60 kDa

Observed MW:

60-65 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:100-1:400

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, pig, rabbit, chicken

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: mouse liver tissue, NIH/3T3 cells

IHC: human liver cancer tissue, human liver tissue

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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

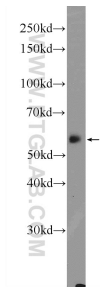
For technical support and original validation data for this product please contact:

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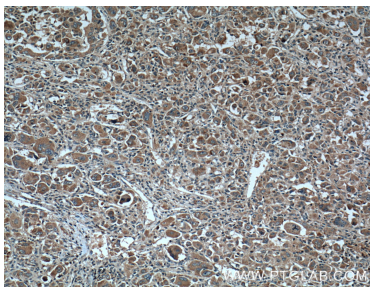
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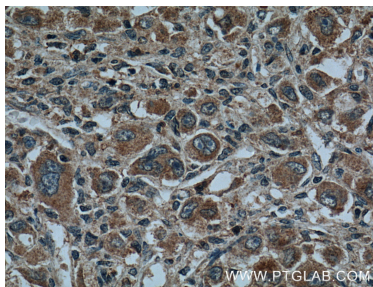
Selected Validation Data



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).