For Research Use Only

# DHCR24 Polyclonal antibody

Catalog Number:10471-1-AP Featured Product 14 Publications

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## Basic Information

Catalog Number:
10471-1-AP

Size:
150ul , Concentration: 450 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0756

GenBank Accession Number:
BC004375

GeneID (NCBI):
1718

UNIPROT ID:
Q15392

Full Name:
24-dehydrocholesterol reductase

Calculated MW:
60 kDa, 516 aa

Observed MW:
50-60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IHC 1:50-1:500

## Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

***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, mouse lung tissue, Jurkat cells, MCF-7 cells

IHC : human liver tissue, mouse liver tissue, human breast cancer tissue

## Background Information

DHCR24(3-beta-hydroxysterol delta-24-reductase), also named as Seladin-1 or Diminuto/dwarf1 homolog, is a member of the flavin adenine dinucleotide (FAD)-dependent oxidoreductases, and catalyzes the reduction of the delta-24 double bond of sterol intermediates during cholesterol biosynthesis. The DHCR24 expression was shown to be down regulated in brain areas affected by Alzheimer's disease and endogenous DHCR24/seladin-1 levels are highly up-regulated upon acute oxidative stress while expression declines to very low levels upon chronic exposure (PMID:17984220). In apoptotic cells, endogenous seladin-1 was cleaved to a 40 kDa derivative in a caspase-dependent manner (PMID: 11007892).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Legg Russell L RL | 19025659 | Reprod Biol Endocrinol | WB |
| Cortnie Hartwig | 33208468 | J Neurosci | |
| Xiao-Yi Lu | 33177714 | Nature | WB |

## Storage

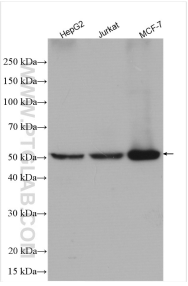
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

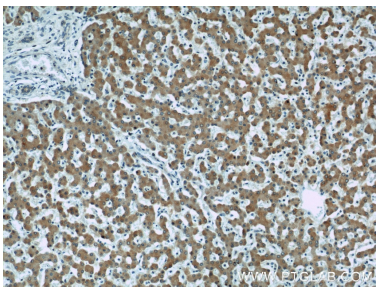
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 10471-1-AP (DHCR24 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver using 10471-1-AP (DHCR24 antibody) at dilution of 1:50 (under 10x lens).