For Research Use Only

# DHRS3 Polyclonal antibody

Catalog Number:15393-1-AP Featured Product 21 Publications

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## Basic Information

Catalog Number:
15393-1-AP

Size:
150ul , Concentration: 600 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG7589

GenBank Accession Number:
BC002730

GeneID (NCBI):
9249

UNIPROT ID:
O75911

Full Name:
dehydrogenase/reductase (SDR family) member 3

Calculated MW:
34 kDa

Observed MW:
30-34 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:50-1:500
IF/ICC 1:200-1:800

## Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, insect

***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 : A375 cells, mouse liver tissue, rat liver tissue, mouse kidney tissue

IP : A375 cells,

IHC : mouse liver tissue,

IF/ICC : HepG2 cells,

## Background Information

DHRS3(Short-chain dehydrogenase/reductase 3) is also named as retSDR1,DD83.1 and belongs to the short-chain dehydrogenases/reductases (SDR) family. It catalyzes the reduction of all-trans-retinal to all-trans-retinol in the presence of NADPH. It is detected high levels of expression in fetal kidney, liver, and lung and in adult heart, placenta, lung, liver, kidney, pancreas, thyroid, testis, stomach, trachea, spinal cord and lower levels in skeletal muscle, intestine, and lymph node. retSDR1 is barely detectable in adrenals, brain, thymus, and hematopoietic tissues(PMID:11861404). retSDR1 may play a more general role in retinol metabolism since its expression was observed in many fetal and adult tissues(PMID:20543567).

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Lin Shen | 36150660 | Biochim Biophys Acta Mol Basis Dis | WB |
| Mark K. Adams | 34542554 | Biochem J | WB |
| Mark K Adams | 27793605 | Chem Biol Interact | WB |

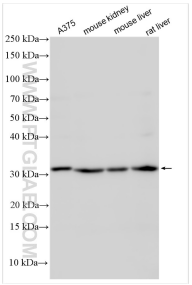
## Storage

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

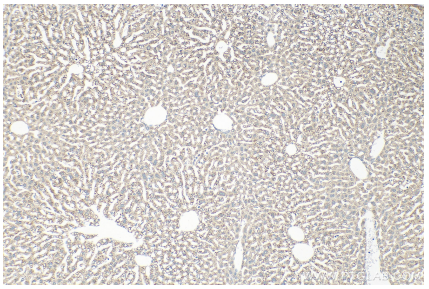
*** 20ul sizes contain 0.1% BSA

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

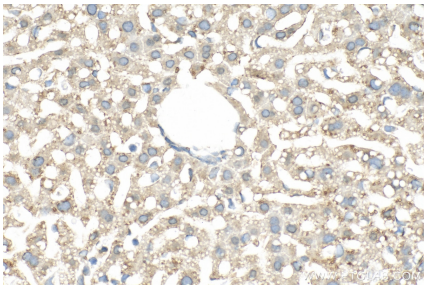
## Selected Validation Data



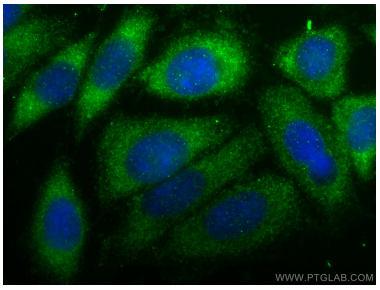

Various lysates were subjected to SDS PAGE followed by western blot with 15393-1-AP (DHRS3 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



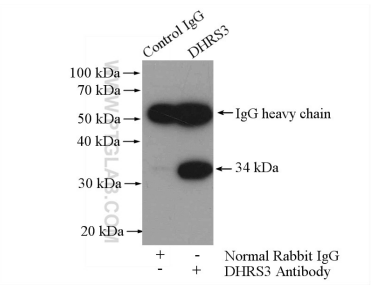
Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 15393-1-AP (DHRS3 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 15393-1-AP (DHRS3 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 DHRS3 antibody (15393-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).




IP result of anti-DHRS3 (IP:15393-1-AP, 4ug; Detection:15393-1-AP 1:500) with A375 cells lysate 3600ug.