

For Research Use Only

# RDH10 Polyclonal antibody

Catalog Number: 14644-1-AP

Featured Product

21 Publications



## Basic Information

### Catalog Number:

14644-1-AP

### Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG6237

### GenBank Accession Number:

BC067131

### GeneID (NCBI):

157506

### UNIPROT ID:

Q8IZV5

### Full Name:

retinol dehydrogenase 10 (all-trans)

### Calculated MW:

38 kDa

### Observed MW:

39 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, 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** : HepG2 cells, A549 cells, mouse liver tissue, mouse kidney tissue, rat kidney tissue

**IP** : mouse liver tissue,

**IHC** : mouse kidney tissue,

## Background Information

RDH10(Retinol dehydrogenase 10) is a strictly NAD<sup>+</sup>-dependent enzyme with multisubstrate specificity that recognizes cis-retinols as well as all-trans-retinol as substrates. RDH10-mediated oxidation of retinol plays an important role in the control and regulation of RA production during embryogenesis as does the subsequent RALDH-mediated reaction(PMID: 22319578).

## Notable Publications

Author	Pubmed ID	Journal	Application
Mark K. Adams	34542554	Biochem J	WB
Amy E Defnet	34784434	FASEB J	WB
Yunlu Xue	28539612	Sci Rep	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

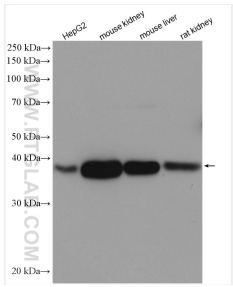
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

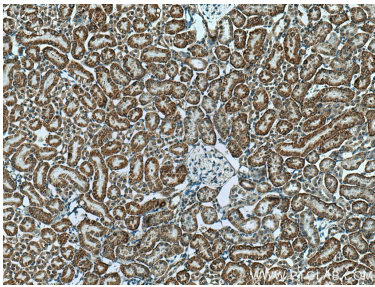
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

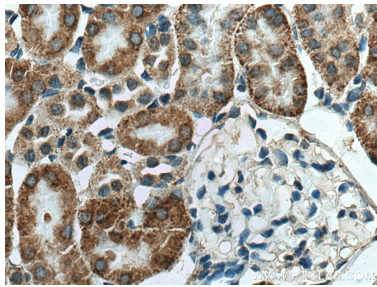
Selected Validation Data



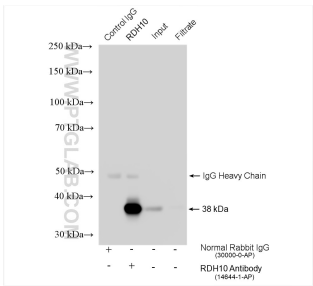
Various lysates were subjected to SDS PAGE followed by western blot with 14644-1-AP (RDH10 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 14644-1-AP (RDH10 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 kidney tissue slide using 14644-1-AP (RDH10 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-RDH10 (IP:14644-1-AP, 4ug; Detection:14644-1-AP 1:4000) with mouse liver tissue lysate 1840 ug.