

## RDH10 Polyclonal antibody

Catalog Number: 14644-1-AP

Featured Product

19 Publications

## Basic Information

<b>Catalog Number:</b> 14644-1-AP	<b>GenBank Accession Number:</b> BC067131	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 157506	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Source:</b> Rabbit	<b>Full Name:</b> retinol dehydrogenase 10 (all-trans)	IP 0.5-4.0 ug for IP and 1:1000-1:8000 for WB
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 38 kDa	IHC 1:50-1:500
<b>Immunogen Catalog Number:</b> AG6237	<b>Observed MW:</b> 39 kDa	

## Applications

**Tested Applications:**  
IHC, IP, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, rat, 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 :** 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

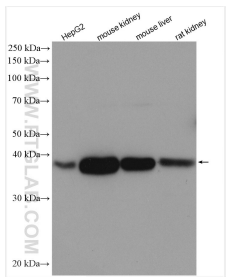
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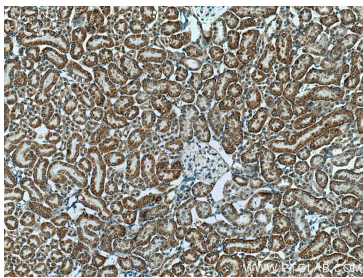
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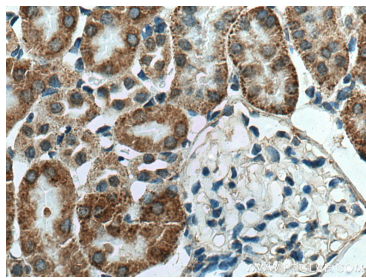
Selected Validation Data



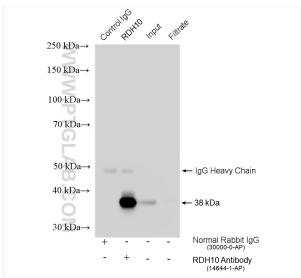
Various lysates were subjected to SDS PAGE followed by western blot with 14644-1-AP (RDH10 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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.