

For Research Use Only

# GSNOR,ADH5 Polyclonal antibody

Catalog Number:11051-1-AP

Featured Product

42 Publications



## Basic Information

### Catalog Number:

11051-1-AP

### Concentration:

500 ug/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG1533

### GenBank Accession Number:

BC070491

### GeneID (NCBI):

128

### UNIPROT ID:

P11766

### Full Name:

alcohol dehydrogenase 5 (class III),  
chi polypeptide

### Calculated MW:

40 kDa

### Observed MW:

40 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:8000

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

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF, IP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, chicken, zebrafish

**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, rat liver tissue, mouse kidney  
tissue

IP : mouse liver tissue,

IHC : human prostate cancer tissue, human colon tissue

IF/ICC : HepG2 cells,

## Background Information

ADH5, also named as ADHX, FDH FALDH GSH-FDH ADH3 and GSNOR, belongs to the zinc-containing alcohol dehydrogenase family and Class-III subfamily. It is remarkably ineffective in oxidizing ethanol, but it readily catalyzes the oxidation of long-chain primary alcohols and the oxidation of S-(hydroxymethyl) glutathione. ADH5 mediates multiple cardiovascular functions. It plays in regulating heterocellular communication in the artery wall. (PMID:21071693). ADH5 immunostaining is distributed in both the nucleus and cytoplasm of the retinal ganglion cells(PMID:22117533).

## Notable Publications

Author	Pubmed ID	Journal	Application
Nadzeya V Marozkina	25359343	Eur Respir J	WB, IHC
Felix A Dingler	33147438	Mol Cell	WB,IHC
Colin T Stomberski	31649033	J Biol 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

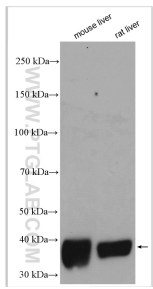
T: 4006900926

E: Proteintech-CN@ptglab.com

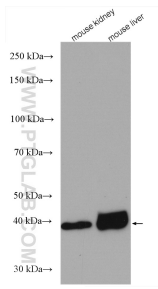
W: ptgcn.com

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

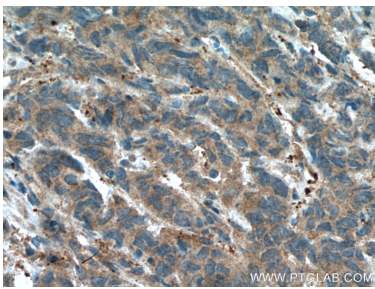
Selected Validation Data



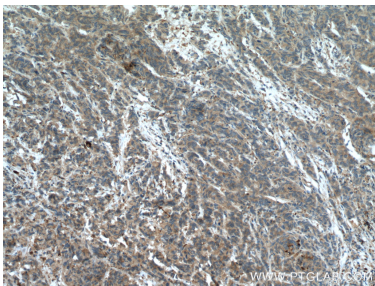
Various lysates were subjected to SDS PAGE followed by western blot with 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



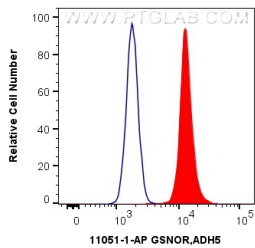
mouse liver tissue were subjected to SDS PAGE followed by western blot with 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



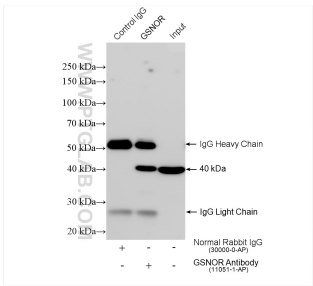
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



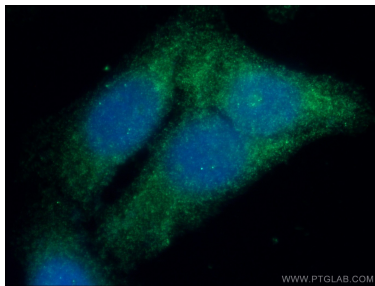
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



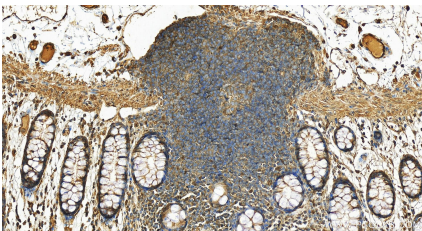
1X10<sup>6</sup> K-562 cells were intracellularly stained with 0.4 ug Anti-Human GSNOR,ADH5 (11051-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-GSNOR,ADH5 (IP:11051-1-AP, 4ug; Detection:11051-1-AP 1:5000) with mouse liver tissue lysate 1840 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:800 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).