

For Research Use Only

GSNOR,ADH5 Polyclonal antibody

Catalog Number:11051-1-AP

Featured Product

42 Publications



Basic Information

Catalog Number:

11051-1-AP

Size:

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

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

*** 20ul sizes contain 0.1% BSA

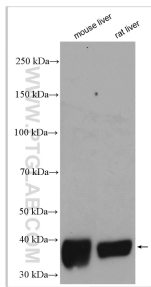
For technical support and original validation data for this product please contact:

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

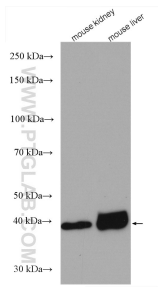
E: proteintech@ptglab.com
W: ptglab.com

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

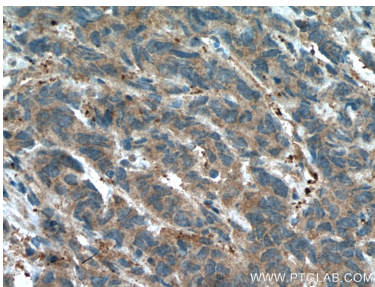
Selected Validation Data



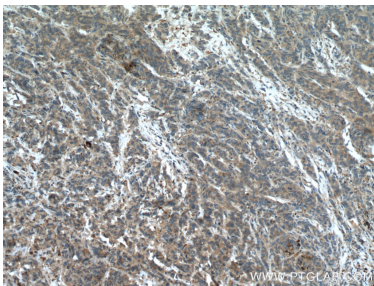
Various lysates were subjected to SDS PAGE followed by western blot with 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



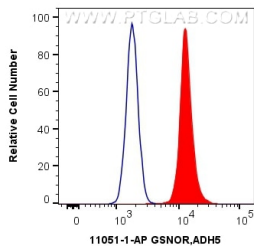
mouse liver tissue were subjected to SDS PAGE followed by western blot with 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



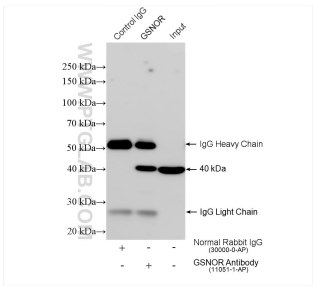
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



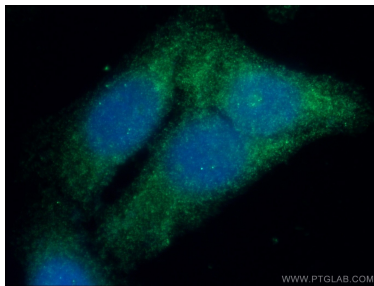
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 11051-1-AP (GSNOR,ADH5 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



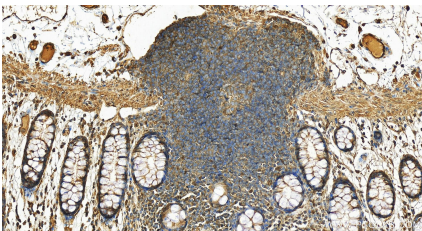
1X10⁶ K-562 cells were intracellularly stained with 0.4 ug Anti-Human GSNOR,ADH5 (11051-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



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).