For Research Use Only

GSNOR,ADH5 Polyclonal antibody

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Catalog Number:16379-1-AP Featured Product 1 Publications

Basic Information

Catalog Number:
16379-1-AP

Size:
150ul , Concentration: 133 μg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG9360

GenBank Accession Number:
BC014665

GeneID (NCBI):
128

Full Name:
alcohol dehydrogenase 5 (class III), chi polypeptide

Calculated MW:
374 aa, 40 kDa

Observed MW:
40 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:1000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:20-1:200
IF 1:20-1:200

Applications

Tested Applications:
FC, IF, IHC, IP, WB,ELISA

Cited Applications:
WB

Species Specificity:
human, mouse, rat

Cited Species:
human

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, human liver tissue, human brain tissue, human testis tissue, mouse heart tissue, HepG2 cells, mouse brain tissue

IP : mouse liver tissue,

IHC : human liver tissue, human endometrial cancer tissue, human pancreas cancer tissue, human testis tissue

IF : 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

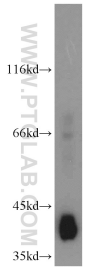
Author	Pubmed ID	Journal	Application
Michele Pietrafesa	31878280	Int J Mol Sci	WB

Storage

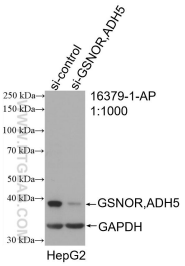
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

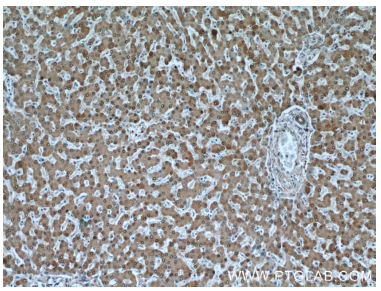
Selected Validation Data



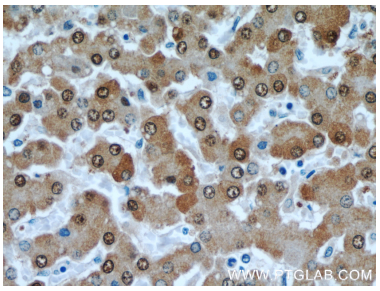
mouse liver tissue were subjected to SDS PAGE followed by western blot with 16379-1-AP (GSNOR,ADH5 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



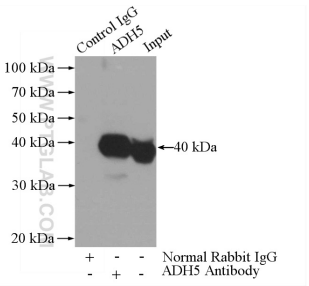
WB result of GSNOR,ADH5 antibody (16379-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSNOR,ADH5 transfected HepG2 cells.



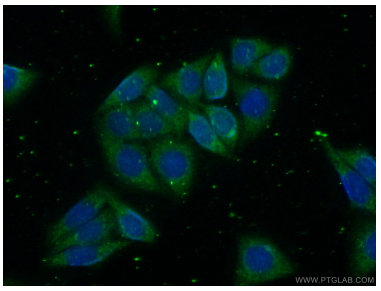
Immunohistochemical analysis of paraffin-embedded human liver using 16379-1-AP (GSNOR,ADH5 antibody) at dilution of 1:50 (under 10x lens).



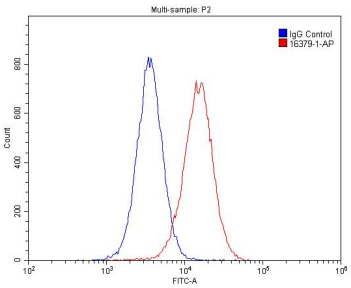
Immunohistochemical analysis of paraffin-embedded human liver using 16379-1-AP (GSNOR,ADH5 antibody) at dilution of 1:50 (under 40x lens).



IP Result of anti-GSNOR,ADH5 (IP:16379-1-AP, 3ug; Detection:16379-1-AP 1:800) with mouse liver tissue lysate 4000ug.



Immunofluorescent analysis of (-20▌Ethanol) fixed HepG2 cells using 16379-1-AP (GSNOR,ADH5 antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1X10^6 HepG2 cells were stained with 0.2ug GSNOR,ADH5 antibody (16379-1-AP, red) and control antibody (blue). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500. Cells were fixed with 4% PFA and permeabilized with 0.1% Triton X-100.