

For Research Use Only

GSNOR,ADH5 Polyclonal antibody

Catalog Number:16379-1-AP

Featured Product

1 Publications



Basic Information

Catalog Number:

16379-1-AP

Size:

150ul , Concentration: 170 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG9360

GenBank Accession Number:

BC014665

GeneID (NCBI):

128

UNIPROT ID:

P11766

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: 1:2000-1:16000

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

IF/ICC: 1:200-1:800

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

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

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human

Positive Controls:

WB : HepG2 cells, human brain tissue, human liver tissue, human testis tissue, mouse liver tissue, rat liver tissue

IP : mouse liver tissue,

IF/ICC : HepG2 cells,

FC (Intra) : 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

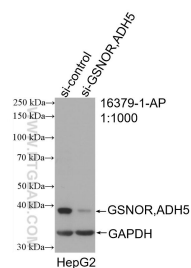
For technical support and original validation data for this product please contact:

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

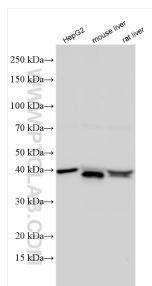
E: proteintech@ptglab.com
W: ptglab.com

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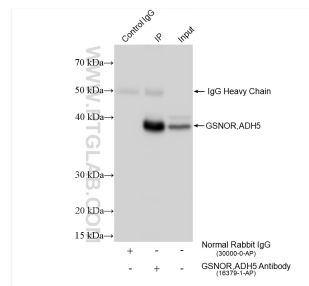
Selected Validation Data



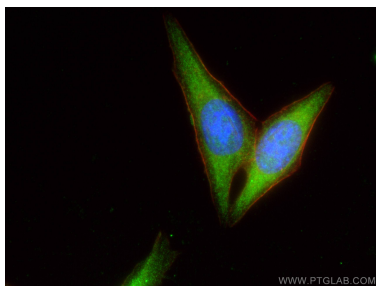
WB result of GSNOR,ADH5 antibody (16379-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSNOR,ADH5 transfected HepG2 cells.



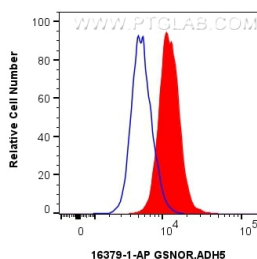
Various lysates were subjected to SDS PAGE followed by western blot with 16379-1-AP (GSNOR,ADH5 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-GSNOR,ADH5 (IP:16379-1-AP, 4ug; Detection:16379-1-AP 1:5000) with mouse liver tissue lysate 2400 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using GSNOR,ADH5 antibody (16379-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



1x10⁶ HepG2 cells were intracellularly stained with 0.25 ug GSNOR,ADH5 Polyclonal antibody (16379-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).