A2041

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ADH5/GSNOR Rabbit pAb

Catalog No.: A2041

Basic Information

Observed MW

Calculated MW
40kDa

Category
Polyclonal Antibody

Applications
WB,IF/ICC,ELISA

Cross-Reactivity
Human,Mouse,Rat

Background

This gene encodes a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. The encoded protein forms a homodimer. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis. The human genome contains several non-transcribed pseudogenes related to this gene.

Recommended Dilutions

WB	1:500 - 1:2000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID
128

Swiss Prot
P11766

Immunogen
Recombinant fusion protein containing a sequence corresponding to amino acids 1-374 of human ADH5/GSNOR (NP_000662.3).

Synonyms
FDH; ADHX; ADH-3; AMEDS; BMFS7; FALDH; GSNOR; GSH-FDH; HEL-S-60p; ADH5/GSNOR

Contact

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Product Information

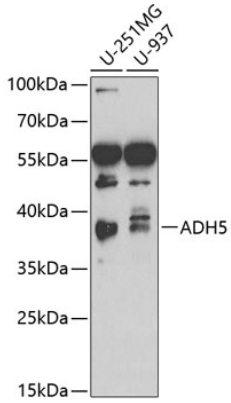
Source
Rabbit

Isotype
IgG

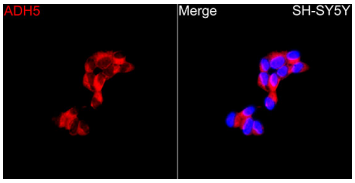
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

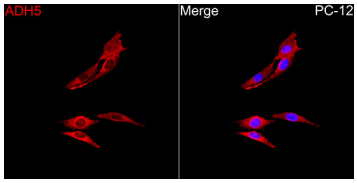
Validation Data



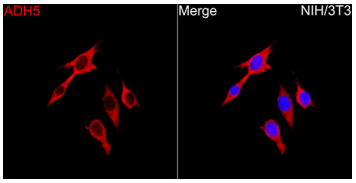
Western blot analysis of various lysates using ADH5/GSNOR Rabbit pAb (A2041) at 1:1000 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.



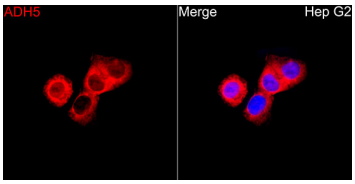
Immunofluorescence analysis of SH-SY5Y cells using ADH5/GSNOR Rabbit pAb(A2041) at a dilution of 1:50 (40x lens). Secondary antibody:() at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using ADH5/GSNOR Rabbit pAb(A2041) at a dilution of 1:50 (40x lens). Secondary antibody:Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using ADH5/GSNOR Rabbit pAb(A2041) at a dilution of 1:50 (40x lens). Secondary antibody:Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of Hep G2 cells using ADH5/GSNOR Rabbit pAb(A2041) at a dilution of 1:50 (40x lens). Secondary antibody:Cy3 Goat Anti-Rabbit IgG (H+L)(AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.