

Datasheet for ABIN6136575 anti-ADH1C antibody (AA 1-375)

5 Images

2 Publications



Overview

Quantity:	100 μL
Target:	ADH1C
Binding Specificity:	AA 1-375
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ADH1C antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of
Product Details Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1).
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVKVAKV TPGSTCAVFG LGGVGLSVVM GCKAAGAARI IAVDINKDKF AKAKELGATE
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVKVAKV TPGSTCAVFG LGGVGLSVVM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVDFSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVKVAKV TPGSTCAVFG LGGVGLSVVM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVDFSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSINPMLLL TGRTWKGAIF GGFKSKESVP KLVADFMAKK FSLDALITNI LPFEKINEGF
Product Details Immunogen: Sequence:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVKVAKV TPGSTCAVFG LGGVGLSVVM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVDFSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSINPMLLL TGRTWKGAIF GGFKSKESVP KLVADFMAKK FSLDALITNI LPFEKINEGF DLLRSGKSIR TVLTF
Product Details Immunogen: Sequence: Isotype:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-375 of human ADH1C (NP_000660.1). MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVKVAKV TPGSTCAVFG LGGVGLSVVM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVDFSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSINPMLLL TGRTWKGAIF GGFKSKESVP KLVADFMAKK FSLDALITNI LPFEKINEGF DLLRSGKSIR TVLTF

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6136575 | 07/25/2024 | Copyright antibodies-online. All rights reserved.

Polyclonal Antibodies
Affinity purification
ADH1C
ADH1C (ADH1C Products)
This gene encodes class I alcohol dehydrogenase, gamma subunit, which is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation and plays a major role in ethanol catabolism. Three genes encoding alpha, beta and gamma subunits are tandemly organized in a genomic segment as a gene cluster.,ADH1C,ADH3,Signal Transduction,Cell Biology & Developmental Biology,Endocrine & Metabolism,ADH1C
39 kDa
126
P00326
WB,1:500 - 1:2000,IHC,1:50 - 1:200
HIGH QUALITY
For Research Use only
Liquid
PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Sodium azide
This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
-20 °C

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN6136575 | 07/25/2024 | Copyright antibodies-online. All rights reserved. Storage Comment:

Store at -20°C. Avoid freeze / thaw cycles.

Publications

Product cited in:

Yan, Li, Peng, Long, Fan, Wang, Shi, Xie, Zhao, Yan: "The Fatty Acid β-Oxidation Pathway is Activated by Leucine Deprivation in HepG2 Cells: A Comparative Proteomics Study." in: **Scientific reports**, Vol. 7, Issue 1, pp. 1914, (2018) (PubMed).

Yan, Lestari, Long, Fan, Wang, Guo, Yu, Hu, Yang, Chen, Liu, Li, Purnomoadi, Achmadi, Yan: " Comparative Proteomics Analysis Reveals L-Arginine Activates Ethanol Degradation Pathways in HepG2 Cells." in: **Scientific reports**, Vol. 6, pp. 23340, (2017) (PubMed).

Images





Arg deprivation +

Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded human stomach using C antibody (ABIN6131394, ABIN6136575, ABIN6136576 and ABIN6224107) at dilution of 1:100 (40x lens).Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.

Western Blotting

Image 2. Arg supplementation activates ethanol degradation pathways in HepG2 cells.(A) The 20 top-ranked canonical pathways based on P-values by the IPA tools. (B) Detailed information of the three top-ranked canonical pathways. (C) Western blot of ADH1C, ALDH1A1, ALDH2, and β -Actin in the HepG2 cells treated by Arg deprivation and Arg supplementation (10 mM) as indicated. (D-F) Quantification of ADH1C/ β -Actin, ALDH2/ β -Actin, and ALDH1A1/ β -Actin as described in (C), respectively. Data are means±SD (n=3). *P<0.05, **P<0.01 (Student's t-test). (G,H)



The ADH and ALDH activity in Arg-deprived (Ctrl) and Argsupplemented (+Arg) HepG2 cells (compared to that of Ctrl) were determined by measuring the rate of NADH production at 340nm. Data are means±SD (n=4). **P<0.01 (Student's ttest). (I) The morphological changes of the ethanol (100 mM) and/or Arg (10 mM)-treated (24h) HepG2 cells were observed by light microscopy. (J) The cytotoxicity of ethanol and/or Arg-treated HepG2 cells (as described in I) was measured by MTT assay. Data are means±SD (n=10). NS, non-significant, ****P<0.0001 (Student's t-test). - figure provided by CiteAb.

Western Blotting

Image 3. Arg supplementation activates ethanol degradation pathways in HepG2 cells.(A) The 20 top-ranked canonical pathways based on P-values by the IPA tools. (B) Detailed information of the three top-ranked canonical pathways. (C) Western blot of ADH1C, ALDH1A1, ALDH2, and β -Actin in the HepG2 cells treated by Arg deprivation and Arg supplementation (10 mM) as indicated. (D-F) Quantification of ADH1C/β-Actin, ALDH2/β-Actin, and ALDH1A1/β-Actin as described in (C), respectively. Data are means±SD (n=3). *P<0.05, **P<0.01 (Student's t-test). (G,H) The ADH and ALDH activity in Arg-deprived (Ctrl) and Argsupplemented (+Arg) HepG2 cells (compared to that of Ctrl) were determined by measuring the rate of NADH production at 340nm. Data are means±SD (n=4). **P<0.01 (Student's ttest). (I) The morphological changes of the ethanol (100 mM) and/or Arg (10 mM)-treated (24h) HepG2 cells were observed by light microscopy. (J) The cytotoxicity of ethanol and/or Arg-treated HepG2 cells (as described in I) was measured by MTT assay. Data are means±SD (n=10). NS, non-significant, ****P<0.0001 (Student's t-test). - figure provided by CiteAb.

Please check the product details page for more images. Overall 5 images are available for ABIN6136575.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN6136575 | 07/25/2024 | Copyright antibodies-online. All rights reserved.