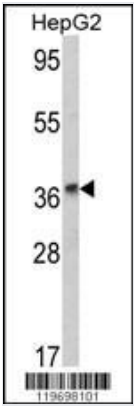
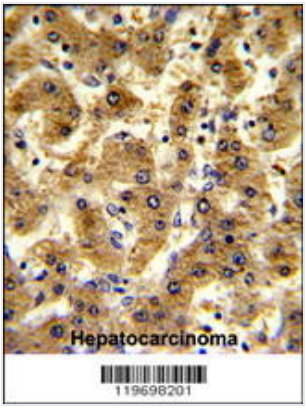
ADH1B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

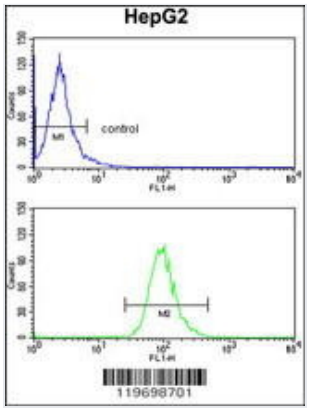
Product Name	ADH1B, Polyclonal Antibody
Full Product Name	ADH1B, ID (Alcohol Dehydrogenase 1B, Alcohol Dehydrogenase Subunit beta, ADH2) (MaxLight 405)
Product Gene Name	anti-ADH1B antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human ADH1B.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	35,412 Da
OMIM	103720
3D Structure	ModBase 3D Structure for P00325
Immunogen	Synthetic peptide selected from the center region of human ADH1B (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-ADH1B antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-ADH1B antibody	Western Blot (WB), FLISA
Application Notes for anti-ADH1B antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ADH1B antibody	MBS6462231 is an antibody targeting ADH1B. Also known as ADH1B, ID (Alcohol Dehydrogenase 1B, Alcohol Dehydrogenase Subunit beta, ADH2) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-ADH1B antibody	1. Alcohol intake, Am. J. Gastroenterol. 104(9), 2182-2188 (2009). 2. Nishimura, F.T., Nihon Arukoru Yakubutsu Igakkai Zasshi 44(3), 139-155 (2009).
Other Notes	Small volumes of anti-ADH1B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



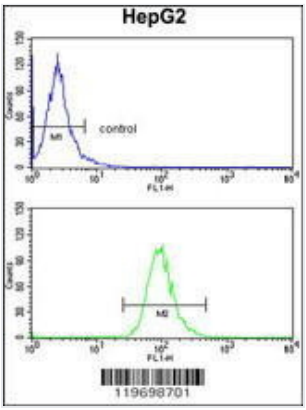
Western Blot (WB) of anti-ADH1B antibody
Western blot analysis of ADH1B Antibody (Center) in HepG2 cell line lysates (35ug/lane). ADH1B (arrow) was detected using the purified Pab.



Immunohistochemistry (IHC) of anti-ADH1B antibody
Formalin-fixed and paraffin-embedded human hepatocarcinoma reacted with ADH1B Antibody (Center), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-ADH1B antibody
ADH1B Antibody (Center) flow cytometry analysis of HepG2 cells (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Immunofluorescence (IF) of anti-ADH1B antibody
Confocal immunofluorescent analysis of ADH1B Antibody (Center) with HepG2 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ADH1B. It may not necessarily be applicable to this product.

NCBI GI #	34577061
NCBI GeneID	125
NCBI Accession #	NP_000659
UniProt Primary Accession #	P00325
UniProt Secondary Accession #	Q13711; Q4ZGI9; Q96KI7; A8MYN5; B4DRS9; B4DVC3
UniProt Related Accession #	P00325
GenBank Nucleotide #	NM_000668.4
NCBI Official Full Name	alcohol dehydrogenase 1B isoform 1
NCBI Official Synonym Full Names	alcohol dehydrogenase 1B (class I), beta polypeptide
NCBI Official Symbol	ADH1B
NCBI Official Synonym Symbols	ADH2; HEL-S-117
UniProt Protein Name	Alcohol dehydrogenase 1B
UniProt Synonym Protein Names	Alcohol dehydrogenase subunit beta

UniProt Gene Name	ADH1B
UniProt Synonym Gene Names	ADH2
UniProt Entry Name	ADH1B_HUMAN
NCBI Protein Information	alcohol dehydrogenase 1B
NCBI Summary for ADH1B	The protein encoded by this gene 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. This encoded protein, 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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2013]
UniProt Comments for ADH1B	ADH1B: Dimer of identical or non-identical chains of three types; alpha, beta and gamma. Belongs to the zinc-containing alcohol dehydrogenase family. Protein type: Lipid Metabolism - fatty acid; Carbohydrate Metabolism - glycolysis and gluconeogenesis; Xenobiotic Metabolism - metabolism by cytochrome P450; EC 1.1.1.1; Oxidoreductase; Amino Acid Metabolism - tyrosine; Cofactor and Vitamin Metabolism - retinol; Xenobiotic Metabolism - drug metabolism - cytochrome P450 Chromosomal Location of Human Ortholog: 4q23 Cellular Component: cytosol Molecular Function: zinc ion binding; alcohol dehydrogenase activity, zinc-dependent Biological Process: xenobiotic metabolic process; ethanol oxidation Disease: Alcohol Dependence
Research Articles on ADH1B	**1.** This meta-analysis revealed that ADH1B Arg47His (rs1229984) polymorphism could increase the risk of HNC in Asians significantly.
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