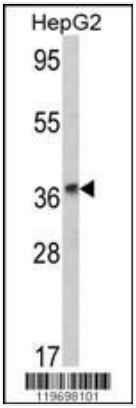
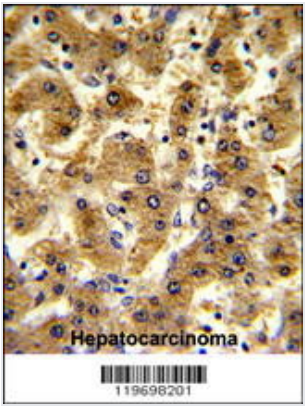
# ADH1B Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

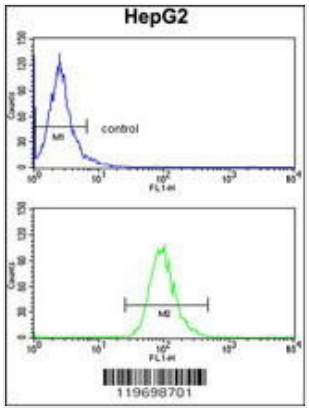
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|---|---|
| **Product Name** | ADH1B, Polyclonal Antibody |
| **Full Product Name** | ADH1B, ID (Alcohol Dehydrogenase 1B, Alcohol Dehydrogenase Subunit beta, ADH2) (MaxLight 650) |
| **Product Gene Name** | anti-ADH1B antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650. |
| **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: MaxLight650 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** | MaxLight650 |
| **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<br>FLISA: 1:1,000<br>Applications are based on unconjugated antibody. |
| **Related Product Information for anti-ADH1B antibody** | MBS6462234 is an antibody targeting ADH1B. Also known as ADH1B, ID (Alcohol Dehydrogenase 1B, Alcohol Dehydrogenase Subunit beta, ADH2) (MaxLight 650). 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. |



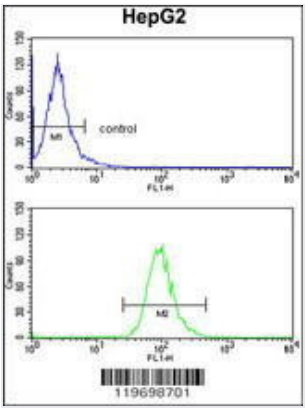

**Western Blot (WB) of anti-ADH1B antibody**
Western blot analysis of ADH1B Antibody (Center) in HepG2 cell line lysates (35ug/lane). ADH1B (arrow) was detected using the purified Pab.




**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.<br><br>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<br><br>Chromosomal Location of Human Ortholog: 4q23<br><br>Cellular Component: cytosol<br><br>Molecular Function: zinc ion binding; alcohol dehydrogenase activity, zinc-dependent<br><br>Biological Process: xenobiotic metabolic process; ethanol oxidation<br><br>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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