

## Product datasheet for **CF502775**

### ADH1B Mouse Monoclonal Antibody [Clone ID: OT11C3]

#### Product data:

|                         |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:           | Primary Antibodies                                                                                                                                                                                                                                                                                                                   |
| Clone Name:             | OT11C3                                                                                                                                                                                                                                                                                                                               |
| Applications:           | IF, IHC, WB                                                                                                                                                                                                                                                                                                                          |
| Recommended Dilution:   | WB 1:2000, IHC 1:150, IF 1:100                                                                                                                                                                                                                                                                                                       |
| Reactivity:             | Human                                                                                                                                                                                                                                                                                                                                |
| Host:                   | Mouse                                                                                                                                                                                                                                                                                                                                |
| Isotype:                | IgG1                                                                                                                                                                                                                                                                                                                                 |
| Clonality:              | Monoclonal                                                                                                                                                                                                                                                                                                                           |
| Immunogen:              | Full length human recombinant protein of human ADH1B (NP_000659) produced in HEK293T cell.                                                                                                                                                                                                                                           |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)                                                                                                                                                                                                                                                                    |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                                                                                                                                                                                                                            |
| Conjugation:            | Unconjugated                                                                                                                                                                                                                                                                                                                         |
| Storage:                | Store at -20°C as received.                                                                                                                                                                                                                                                                                                          |
| Stability:              | Stable for 12 months from date of receipt.                                                                                                                                                                                                                                                                                           |
| Predicted Protein Size: | 39.7 kDa                                                                                                                                                                                                                                                                                                                             |
| Gene Name:              | alcohol dehydrogenase 1B (class I), beta polypeptide                                                                                                                                                                                                                                                                                 |
| Database Link:          | <a href="#">NP_000659</a><br><a href="#">Entrez Gene 125 Human P00325</a>                                                                                                                                                                                                                                                            |



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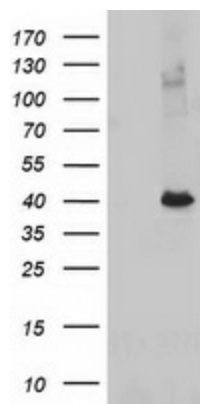
**Background:** The protein encoded by this gene is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This encoded protein, consisting 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. [provided by RefSeq]

**Synonyms:** ADH2; HEL-S-117

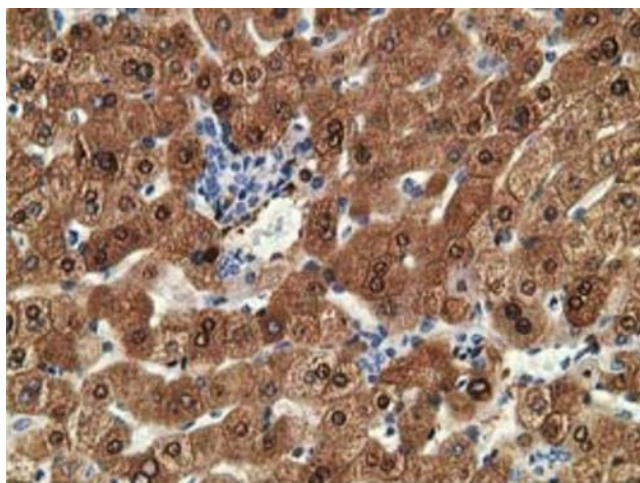
**Protein Families:** Druggable Genome

**Protein Pathways:** Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

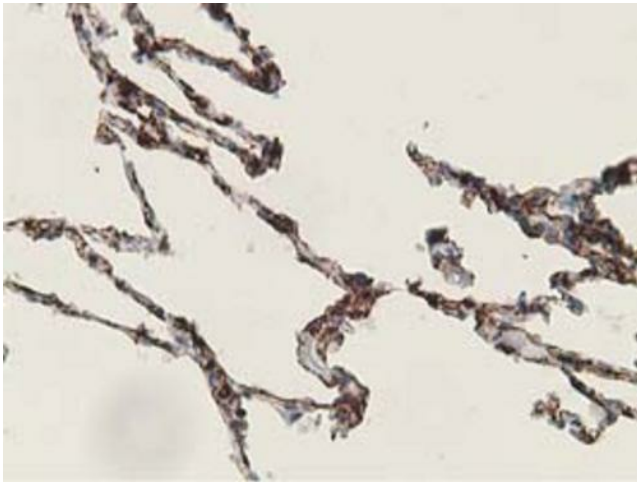
### Product images:



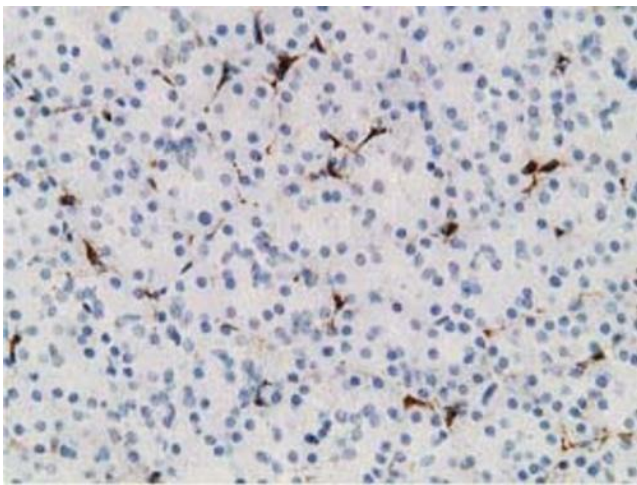
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ADH1B ([RC205391], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADH1B. Positive lysates [LY424580] (100ug) and [LC424580] (20ug) can be purchased separately from OriGene.



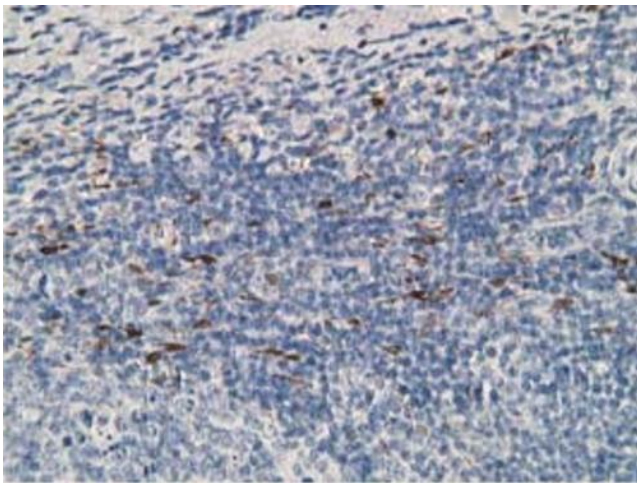
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



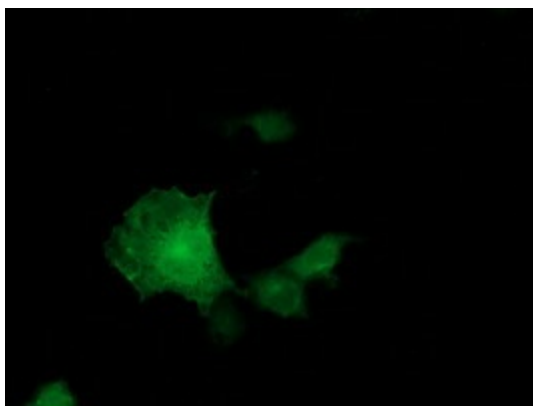
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-ADH1B mouse monoclonal antibody ([TA502775]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ADH1B ([RC205391]).