

## Product datasheet for **TA502778BM**

### **ADH1B Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OT15D7]**

#### **Product data:**

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OT15D7   |
| Applications:           | FC, IF, IHC, WB  |
| Recommended Dilution:   | WB 1:500~2000, IHC 1:150, IF 1:100, FLOW 1:100   |
| Reactivity:             | Human, Monkey  |
| Host:                   | Mouse  |
| Isotype:                | IgG2a  |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human ADH1B (NP_000659) produced in HEK293T cell.   |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol.  |
| Concentration:          | 0.5 mg/ml  |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                              |
| Conjugation:            | HRP  |
| 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 707908 Monkey</a> <a href="#">Entrez Gene 125 Human</a><br><a href="#">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, Jul 2008]

**Synonyms:**

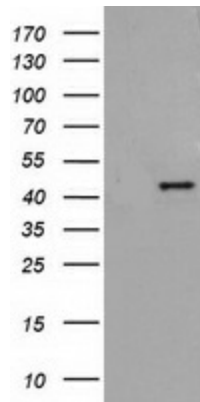
ADH2; HEL-S-117

**Protein Families:**

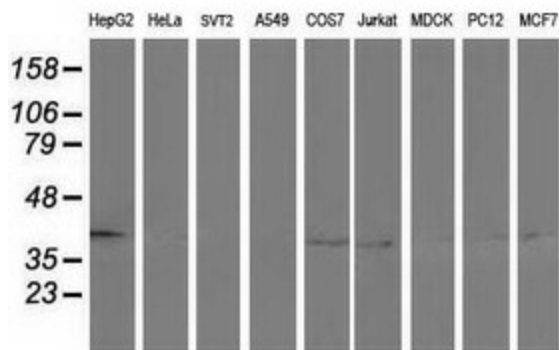
Druggable Genome

**Protein Pathways:**

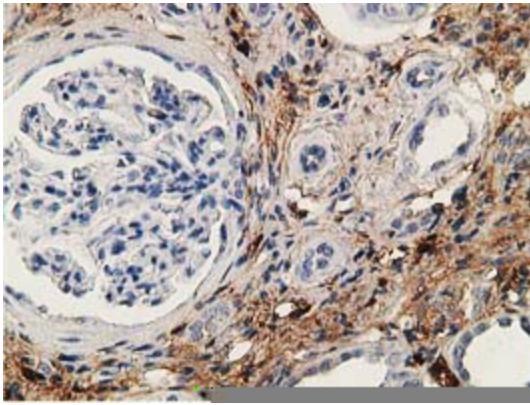
Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

**Product images:**


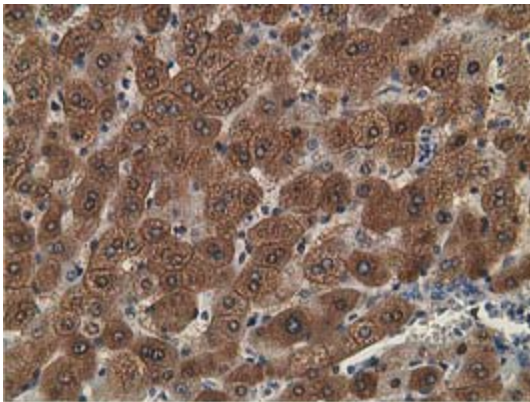
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ADH1B ([RC205391], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADH1B. Positive lysates [LY424580] (100ug) and [LC424580]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



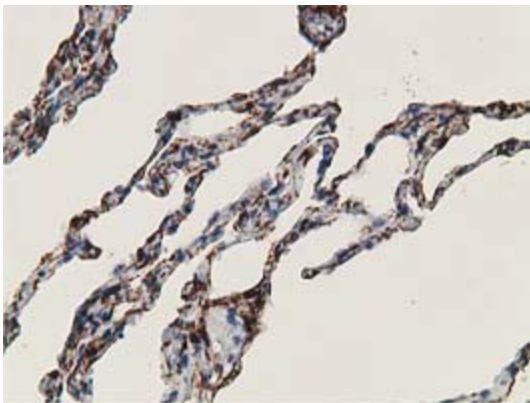
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-ADH1B monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



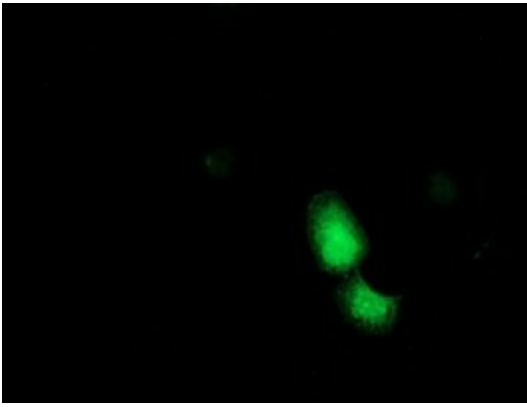
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502778])



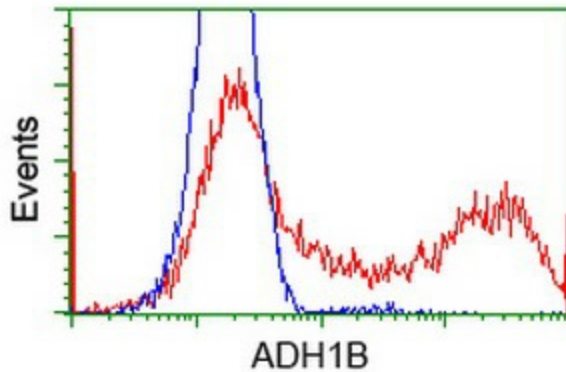
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502778])



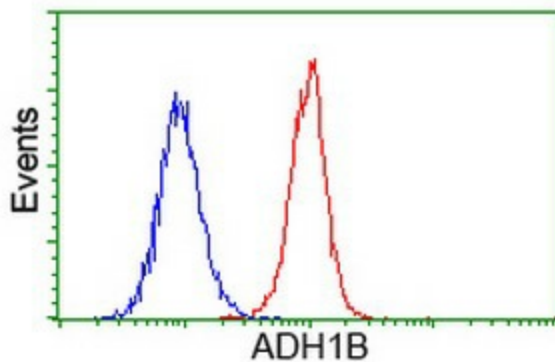
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502778])



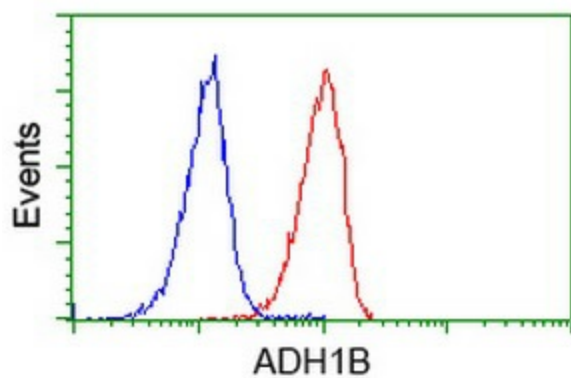
Anti-ADH1B mouse monoclonal antibody ([TA502778]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ADH1B ([RC205391]).



HEK293T cells transfected with either [RC205391] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ADH1B antibody ([TA502778]), and then analyzed by flow cytometry.



Flow cytometric Analysis of HeLa cells, using anti-ADH1B antibody ([TA502778]), (Red), compared to a nonspecific negative control antibody, (Blue).



Flow cytometric Analysis of Jurkat cells, using anti-ADH1B antibody ([TA502778]), (Red), compared to a nonspecific negative control antibody, (Blue).