

## Product datasheet for **CF502777**

### ADH1B Mouse Monoclonal Antibody [Clone ID: OTI4F12]

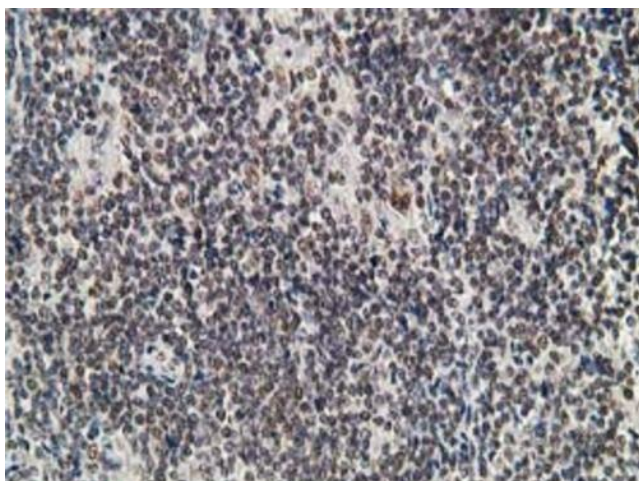
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4F12
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:500, IHC 1:150, IF 1:100, FLOW 1:100
Reactivity:	Human, Dog, Rat
Host:	Mouse
Isotype:	IgG2a
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> <a href="#">Entrez Gene 125 Human P00325</a>

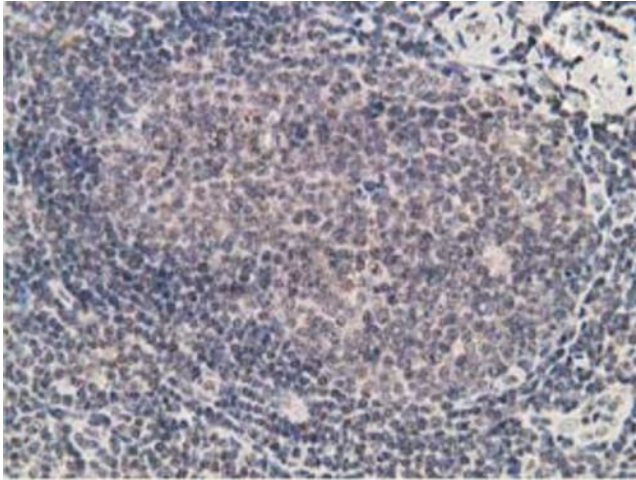


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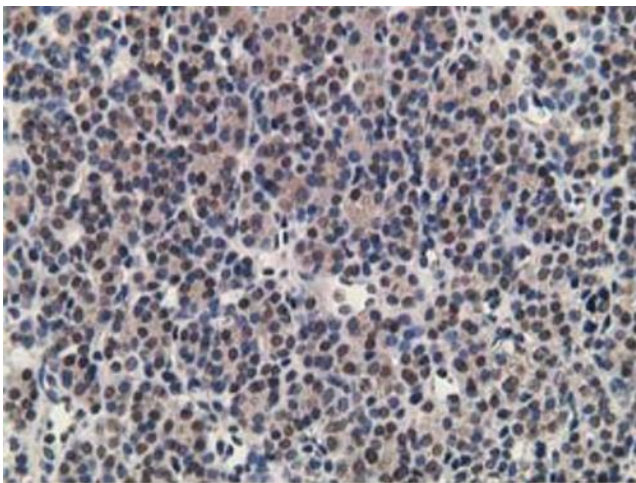
<b>Background:</b>	The protein encoded by this gene is a member of the alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. This encoded protein, consisting 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]
<b>Synonyms:</b>	ADH2; HEL-S-117
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

**Product images:**

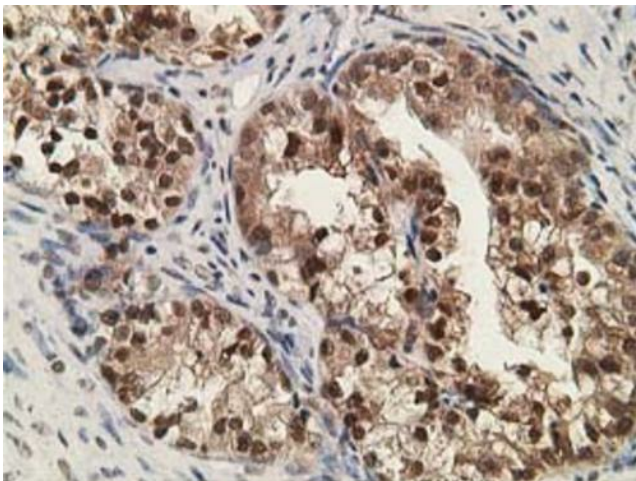
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



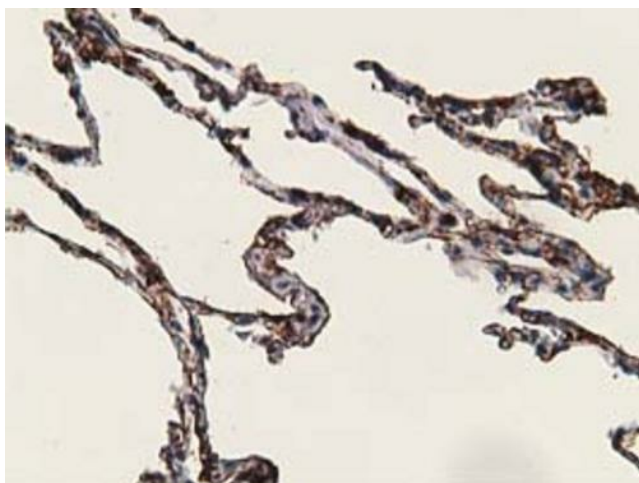
Immunohistochemical staining of paraffin-embedded Human lymph node tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



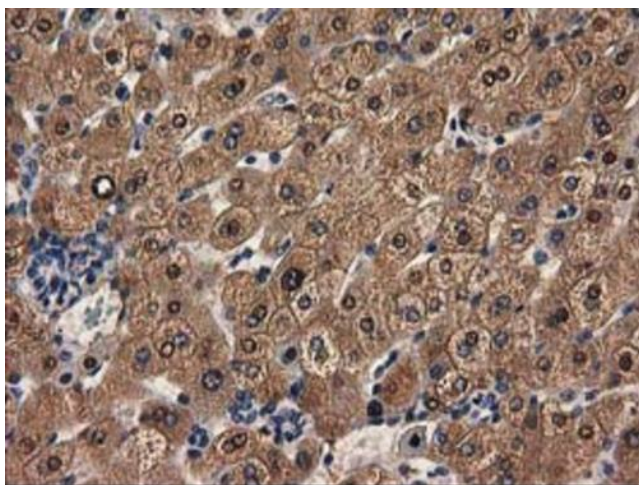
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



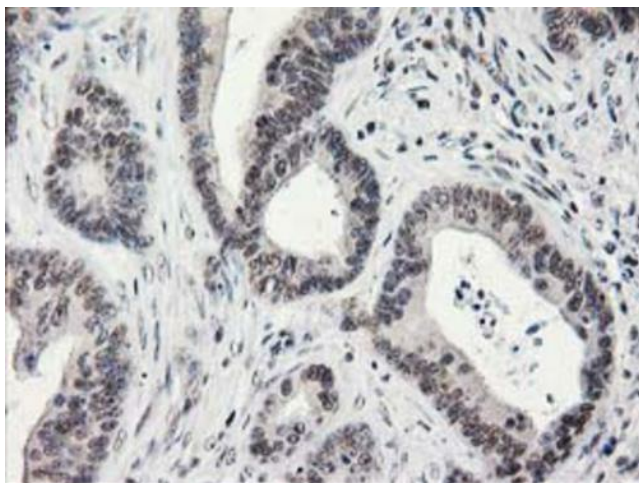
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



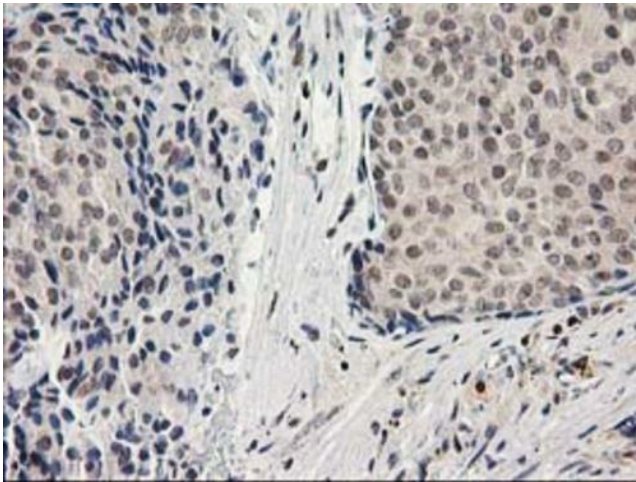
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



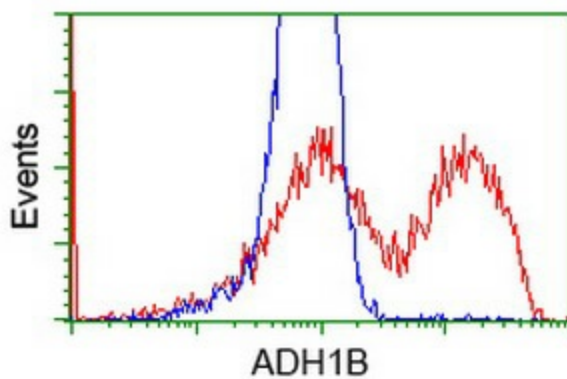
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



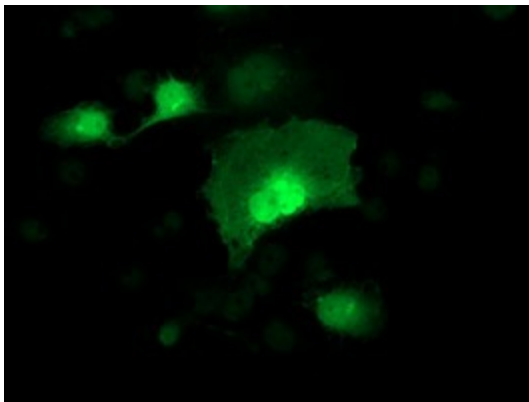
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



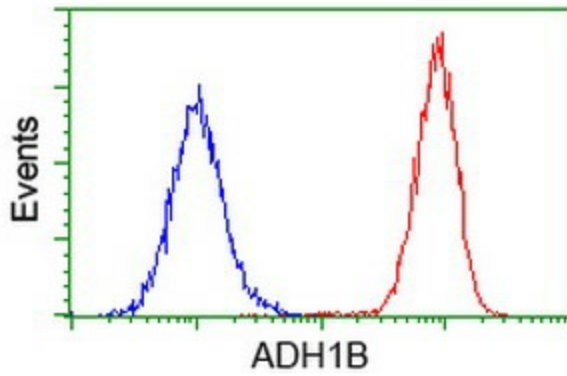
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-ADH1B mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



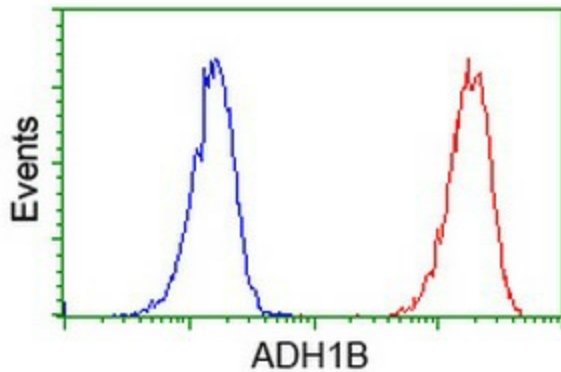
HEK293T cells transfected with either [RC205391] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-ADH1B antibody ([TA502777]), and then analyzed by flow cytometry.



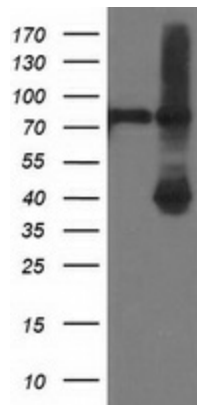
Anti-ADH1B mouse monoclonal antibody ([TA502777]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY ADH1B ([RC205391]).



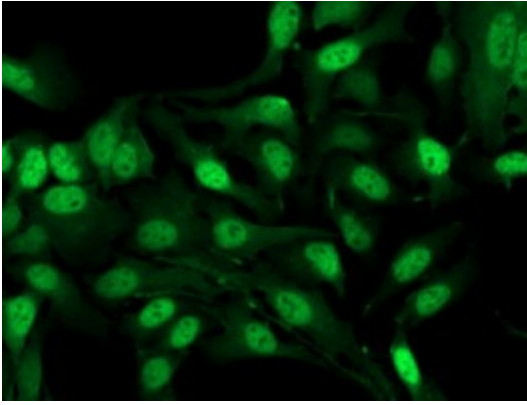
Flow cytometric Analysis of HeLa cells, using anti-ADH1B antibody ([TA502777]), (Red), compared to a nonspecific negative control antibody, (Blue).



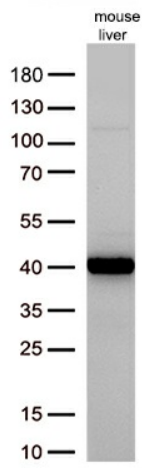
Flow cytometric Analysis of Jurkat cells, using anti-ADH1B antibody ([TA502777]), (Red), compared to a nonspecific negative control antibody, (Blue).



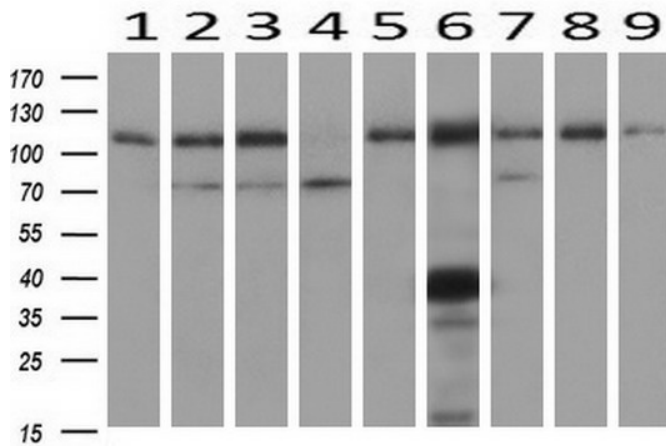
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ADH1B (Cat# [RC205391], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ADH1B (Cat# [TA502777]). Positive lysates [LY424580] (100ug) and [LC424580] (20ug) can be purchased separately from OriGene.



Immunofluorescent staining of HeLa cells using anti-ADH1B mouse monoclonal antibody ([TA502777]).



Western blot analysis of extracts (50ug per lane) from mouse liver lysate by using anti-ADH1B antibody ([TA502777], 1:2000; 1mg/ml).



Western blot analysis of extracts (10ug) from 9 Human tissue by using anti-ADH1B monoclonal antibody at 1:1000 (1: Testis; 2: Omentum; 3: Uterus; 4: Breast; 5: Brain; 6: Liver; 7: Ovary; 8: Thyroid gland; 9: colon).