

Human Alcohol dehydrogenase 1B (ADH1B) ELISA Kit



Catalog No: #EK7729

Orders: order@signalwayantibody.com

Package Size: #EK7729-1 48T #EK7729-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Alcohol dehydrogenase 1B (ADH1B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	ADH2; DKFZp686C06125; ADH; beta subunit alcohol dehydrogenase 2 (class I); beta polypeptide aldehyde reductase class I alcohol dehydrogenase; beta subunit
Accession No.	P00325
Uniprot	P00325
GeneID	125;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:31.25-2000 pg/mL

Sensitivity:12.9 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate ADH1B in samples. An antibody specific for ADH1B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyADH1B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for ADH1B is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of ADH1B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**ADH2 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. Previously ADH1B was called ADH2. There are more genes in the family of alcohol and aldehyde dehydrogenase genes. These genes are now referred to as ADH1A, ADH1C, and ADH4, ADH5, ADH6 and ADH7.

Note: This product is for in vitro research use only