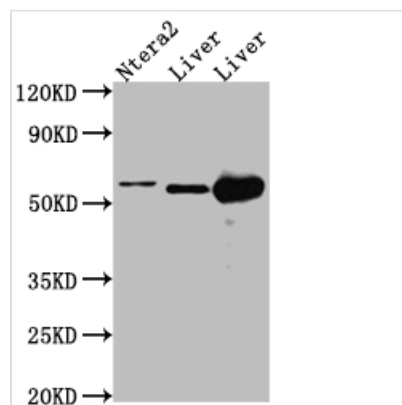




# ALDH2 Antibody

<b>Product Code</b>	CSB-RA799763A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	P05091
<b>Immunogen</b>	A synthesized peptide derived from human ALDH2
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Tested Applications</b>	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
<b>Relevance</b>	extracellular exosome, mitochondrial matrix, aldehyde dehydrogenase (NAD) activity, aldehyde dehydrogenase [NAD(P)+] activity, electron carrier activity, NAD binding, alcohol metabolic process, carbohydrate metabolic process, ethanol oxidation
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Cancer; Cardiovascular; Tags & Cell Markers; Metabolism; Signal transduction
<b>Gene Names</b>	ALDH2
<b>Accession NO.</b>	3F10

## Image



### Western Blot

Positive WB detected in: Ntera-2 whole cell lysate, Mouse Liver whole cell lysate, Rat Liver cell lysate

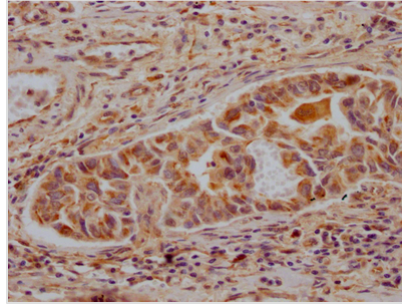
All lanes: ALDH2 antibody at 1:1000

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 57, 51 kDa

Observed band size: 57 kDa



IHC image of CSB-RA799763A0HU diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

## Description

ALDH2 is a major mitochondrial enzyme involved in the oxidation-reduction reaction of ethanol and endogenous aldehydic products which is set free from lipid peroxidation. It is important for protecting cells from acetaldehyde toxicity. ALDH2 dysfunction is associated with the occurrence and development of cancer. Either low or high ALDH2 expression contributes to tumor progression and varies among different tumor types. ALDH2 is a cancer stem cells (CSCs) biomarker and is related to proliferation, metastasis, and multidrug resistance (MDR) to cancer cell chemotherapy drugs.

The main production processes of this recombinant ALDH2 antibody included immunization, B cell harvest, antibody secreting cell enrichment, single cell sequencing, antibody expression and purification. The single B cell screening platform was used for the ALDH2 antibody gene screening. And this ALDH2 antibody was tested in ELISA, WB, IHC.