

Product datasheet for **EA200048**

Human ALDH1L1 ELISA Kit 1 x 96

Product data:

Product Type:	ELISA Kits
Description:	Human ALDH1L1 ELISA Kit 1 x 96
Size:	1 x 96 wells
Format:	8x12 divisible strips
Assay Type:	Sandwich
Assay Length:	3.5 hours incubations; 0.5 hour washing and analyzing samples
Signal:	Colorimetric
Curve Range:	0.156-10ng/ml
Sample Type:	Human serum, plasma, and other biological fluids.
Sample Volume:	100µl
Specificity:	This kit is used for quantitative detection of ALDH1L1
Sensitivity:	39pg/ml
Reactivity:	Human
Cross Reactivity:	There is no detectable cross-reactivity with other relevant proteins.
Interference:	No significant interference observed with available related molecules.
Components:	<ul style="list-style-type: none">• ALDH1L1 Monoclonal Antibody Coated 96-well Plate in foil pouch with desiccant 1 plate• Human ALDH1L1 Standard (500ng/ml) 0.1 mL• 100x Biotin conjugated ALDH1L1 Detection Antibody 0.12 mL• 100x SA-HRP Conjugate 0.12 mL• Assay Buffer 40 mL• Sample Diluent 30 mL• Wash Buffer Concentrate 20X 60 mL• TMB Substrate 12 mL• Stop Solution 12 mL• Plate Sealer 3 pieces



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Background:

Aldehyde dehydrogenase 1 family member L1 (ALDH1L1), a 10-formyltetrahydrofolate dehydrogenase that in humans is encoded by the ALDH1L1 gene. The ALDH1L1 protein is a tetramer composed of 902 aa identical subunits. ALDH1L1 catalyzes the conversion of 10-formyltetrahydrofolate, nicotinamide adenine dinucleotide phosphate (NADP⁺), and water to tetrahydrofolate, NADPH, and carbon dioxide. It belongs to the aldehyde dehydrogenase family. Loss of function or expression of this gene is associated with decreased apoptosis, increased cell motility, and cancer progression. Deficiencies in this gene can result in an accumulation of formate and subsequent methanol poisoning. Many studies have predicted that ALDH1L1 is a tumor suppressor gene. ALDH1L1 is usually underexpressed in malignant tumors and competes with tumors for the same folate substrate. In hepatocellular carcinoma decreased expression of ALDH1L1 is associated with a poor prognosis.

Gene Symbol:

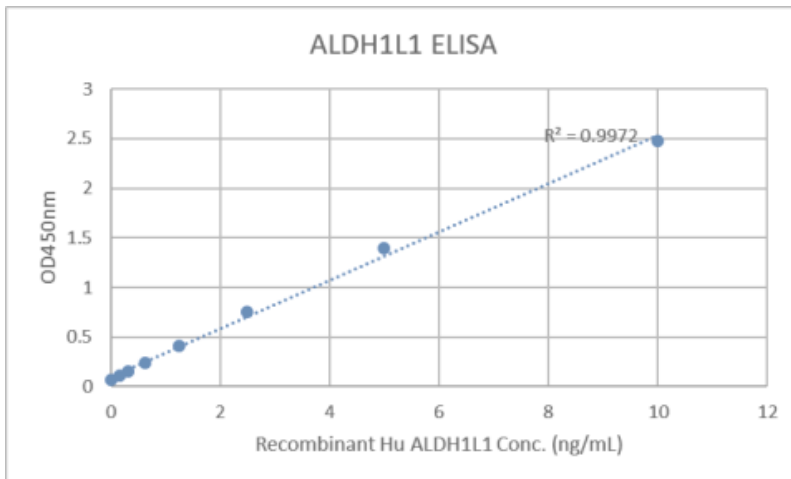
ALDH1L1

Gene ID:

10840

Standard Curve:

□
Human ALDH1L1 ELISA Kit.

Product images:

Human ALDH1L1 ELISA Kit.