

Human Homeobox protein CDX-2 (CDX2) ELISA Kit

Catalog No: #EK11302



Package Size: #EK11302-1 48T #EK11302-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Human Homeobox protein CDX-2 (CDX2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	CDX-3; CDX3; caudal type homeo box transcription factor 2 caudal type homeobox transcription factor 2
Accession No.	Q99626
Uniprot	Q99626
GeneID	1045;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL

Sensitivity:0.055 ng/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:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate CDX2 in samples. An antibody specific for CDX2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyCDX2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for CDX2 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 CDX2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Caudal type homeobox transcription factor 2 is a homeobox transcription factor.Cdx2 is the gene that directs early embryogenesis in mice. It is required to form the placenta.Ectopic expression of CDX2 was reported more than 85% of the human patients with Acute myeloid leukemia (AML). Ectopic expression of Cdx2 in murine bone marrow induced AML in mice and upregulate Hox genes in bone marrow progenitors.This gene (or, more specifically, the equivalent gene in humans) has come up in the proposal by the President's Council on Bioethics, as a solution to the stem cell controversy. According to one of the plans put forth, by deactivating the gene, it would not be possible for a properly organized embryo to form, thus providing stem cells without requiring the destruction of an embryo.

Note: This product is for in vitro research use only