

Human DNA-binding protein SATB1 (SATB1) ELISA Kit



Catalog No: #EK7450

Orders: order@signalwayantibody.com

Package Size: #EK7450-1 48T #EK7450-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human DNA-binding protein SATB1 (SATB1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	DNA-binding protein SATB1 special AT-rich sequence binding protein 1 special AT-rich sequence binding protein 1 (binds to nuclear matrix/scaffold-associating DNA s)
Accession No.	Q01826
Uniprot	Q01826
GeneID	6304;
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:0.312-20 ng/mL

Sensitivity:0.102 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 SATB1 in samples. An antibody specific for SATB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySATB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SATB1 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 SATB1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**SATB1, the global chromatin organizer and transcription factor, has emerged as a key factor integrating higher-order chromatin architecture with gene regulation. Recent studies have unraveled the role of SATB1 in organization of chromatin 'loopscape' and its dynamic nature in response to physiological stimuli. At genome-wide level, SATB1 seems to play a role in organization of the transcriptionally poised chromatin. SATB1 organizes the MHC class-I locus into distinct chromatin loops by tethering MARs to nuclear matrix at fixed distances. Silencing of SATB1 mimics the effects of IFN-γ treatment on chromatin loop architecture of the MHC class I locus and altered expression of genes within the locus. SATB1induce breast cancer tumor growth and metastasis through the altered expression of large numbers of genes.

Note: This product is for in vitro research use only