Bovine DNA-directed RNA polymerase II subunit RPB3 (POLR2C) ELISA Kit

Catalog No: #EK11442

Package Size: #EK11442-1 48T #EK11442-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Bovine DNA-directed RNA polymerase II subunit RPB3 (POLR2C) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	RPB3; RPB31; hRPB33; hsRPB3; DNA directed RNA polymerase II polypeptide C|RNA polymerase II subunit 3
Accession No.	Q3T0Q3
Uniprot	Q3T0Q3
GeneID	504452;
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:Request Information

Sensitivity:Request Information

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 POLR2C in samples. An antibody specific for POLR2C has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPOLR2C present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for POLR2C 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 POLR2C bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:POLR2C encodes the third largest subunit of RNA polymerase II, the polymerase responsible for synthesizing messenger RNA in eukaryotes. The product of this gene contains a cysteine rich region and exists as a heterodimer with another polymerase subunit, POLR2J. These two subunits form a core subassembly unit of the polymerase. A pseudogene has been identified on chromosome 21.

The deduced 275-amino acid human POLR2C protein, termed RPB33 by the authors, shares 45% sequence identity with the yeast homolog RPB3. POLR2C contains a single cysteine-rich region. Northern blot analysis of HeLa cell mRNA detected an approximately 1.8-kb POLR2C doublet.

Note: This product is for in vitro research use only