Human DNA repair protein complementing XP-C cells (XPC) ELISA Kit

Catalog No: #EK5811

Package Size: #EK5811-1 48T #EK5811-2 96T

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Description

Product Name	Human DNA repair protein complementing XP-C cells (XPC) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	RAD4; XP3; XPCC; xeroderma pigmentosum group C protein
Accession No.	Q01831
Uniprot	Q01831
GeneID	7508;
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:0.112 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 XPC in samples. An antibody specific for XPC has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyXPC present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for XPC 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 XPC bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Xeroderma pigmentosum, complementation group C, also known as XPC, is a component of the nucleotide excision repair (NER) pathway. There are multiple components involved in the NER pathway, including Xeroderma pigmentosum (XP) A-G and V, Cockayne syndrome (CS) A and B, and trichothiodystrophy (TTD) group A, etc.

This component, XPC, plays an important role in the early steps of global genome NER, especially in damage recognition, open complex formation, and repair protein complex formation.Mutations in this gene or some other NER components result in Xeroderma pigmentosum, a rare autosomal recessive disorder characterized by increased sensitivity to sunlight with the development of carcinomas at an early age.

Note: This product is for in vitro research use only