

Human Insulin-like growth factors binding protein 3 (IGFBP-3) ELISA Kit

Catalog No: #EK11563

Orders: order@signalwayantibody.com

Package Size: #EK11563-1 48T #EK11563-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Human Insulin-like growth factors binding protein 3 (IGFBP-3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	tcag7.703; BP-53; IBP3; IGF-binding protein 3 acid stable subunit of the 140 K IGF complex binding protein 29 binding protein 53 growth hormone-dependent binding protein
Accession No.	P17936
Uniprot	P17936
GeneID	3486;
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:0.625-40 ng/mL

Sensitivity:0.251 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:Sandwich Test principle:This assay employs a two-site sandwich ELISA to quantitate IGFBP3 in samples. An antibody specific for IGFBP3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any IGFBP3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for IGFBP3 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 IGFBP3 bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview:The protein forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors.

IGFBP3 protein levels decrease during the progression of prostate cancer from benign prostatic hyperplasia (BPH) to its metastatic form. Although, production of the protein does not cease completely. IGFBP3 is still made (at a lower level) by prostate cancer cells and secreted into the surrounding environment. However, instead of the full length, functional protein, IGFBP3 is found to be cleaved.

Note: This product is for in vitro research use only