

Human insulin-like growth factor binding protein 3 ELISA Kit | IGFBP3 elisa kit

Human insulin-like growth factors binding protein 3, IGFBP-3 ELISA Kit

CATALOG #
AAA79527

REACTIVITY
Human

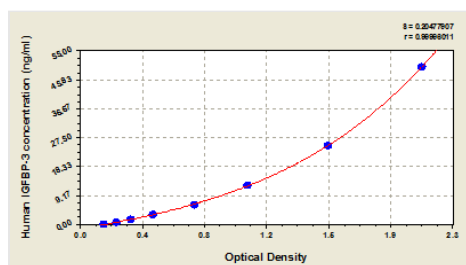
PRODUCT SYNONYMS

insulin-like growth factor binding protein 3; Human insulin-like growth factors binding protein 3; IGFBP-3 ELISA Kit; 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; IGFBP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Human IGFBP3. No significant cross-reactivity or interference between Human IGFBP3 and analogues was observed.
Sequence Length	291
Samples	Serum, plasma and tissue homogenates
Detection Range	0.78 ng/ml-50 ng/ml
Sensitivity	0.195 ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): CV% is less than 8% Three samples of known concentration were tested twenty times on one plate to assess. Inter-assay Precision (Precision between assays): CV% is less than 10% Three samples of known concentration were tested in twenty assays to assess.
Detection Wavelength	450 nm
Sample Volume	50-100ul
Preparation and Storage	Unopened test kits should be stored at 2 to 8 degree C upon receipt. Please refer to pdf manual for further storage instructions.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IGFBP3 elisa kit

Introduction: Insulin-like growth factor binding protein 3, also known as IGFBP3, is a protein which in humans is encoded by the IGFBP3 gene. This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. 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. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. 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. This prevents IGFBP3 from binding and sequestering IGFs and the growth factors are free to bind the IGF-1R and promote cell survival.

Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to IGFBP-3. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific for IGFBP-3 and Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then a TMB (3,3',5,5' tetramethyl-benzidine) substrate solution is added to each well. Only those wells that contain IGFBP-3, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of a sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450 nm +/- 2 nm. The concentration of IGFBP-3 in the samples is then determined by comparing the O.D. of the samples to the standard curve.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62243068
NCBI GeneID	3486
NCBI Accession #	NP_000589.2
NCBI GenBank Nucleotide #	NM_000598.4
UniProt Accession #	P17936 ; Q2V509 ; Q6P1M6 ; Q9UCL4 ; A4D2F5 ; D3DVM0
Molecular Weight	31,674 Da
NCBI Official Full Name	insulin-like growth factor-binding protein 3 isoform b
NCBI Official Synonym Full Names	insulin-like growth factor binding protein 3
NCBI Official Symbol	IGFBP3
NCBI Official Synonym Symbols	IBP3; BP-53
NCBI Protein Information	insulin-like growth factor-binding protein 3; IBP-3; IGFBP-3; binding protein 29; binding protein 53; IGF-binding protein 3; growth hormone-dependent binding protein; acid stable subunit of the 140 K IGF complex
UniProt Protein Name	Insulin-like growth factor-binding protein 3
UniProt Gene Name	IGFBP3
UniProt Synonym Gene Names	IBP3; IBP-3; IGF-binding protein 3; IGFBP-3
UniProt Entry Name	IBP3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/igfbp3-human-elisa-kits/insulin-like-growth-factor-binding-protein-3/79527>