

Human IGFBP4 PicoKine ELISA Kit | IGFBP4 elisa kit

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CATALOG #
AAA46148

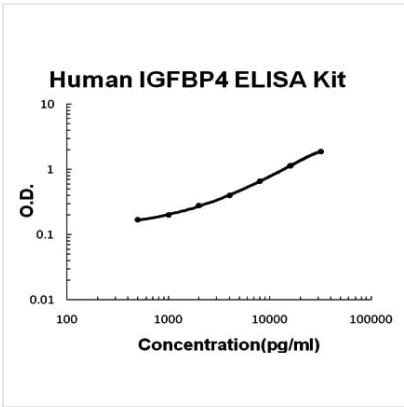
REACTIVITY
Human

PRODUCT SYNONYMS

IGFBP4 PicoKine; Human IGFBP4 PicoKine ELISA Kit; Insulin-like growth factor-binding protein 4; AI875747; BP 4; BP4; Deb2; HT29 IGFBP; IBP 4; IBP-4; IBP4; IBP4_HUMAN; IGF binding protein 4; IGF-binding protein 4; IGF-BP4; IGFBP 4; IGFBP-4; IGFBP4; Insulin Like Growth Factor Binding Protein 4; Insulin-like growth factor-binding protein 4 ; insulin-like growth factor binding protein 4; IGFBP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human IGFBP4
Sequence Length	258
Assay Range	500pg/ml-32000pg/ml
Sensitivity	<20pg/ml
Sample	For quantitative detection of human IGFBP4 in cell culture supernates, serum, and plasma(heparin, EDTA).
Immunogen	NSO, D22-E258
Assay Procedure Step 1	Aliquot 0.1ml per well of the 32000pg/ml, 16000pg/ml, 8000pg/ml, 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml human IGFBP4 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human IGFBP4 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 846 3152 12,519 755 3646 13698 Standard deviation 43.99 179.66 688.54 49.83 258.86 876.67 CV(%) 5.2 5.7 5.5 6.6 7.1 6.4
Sample Data	Concentration(pg/ml) 0 500 1000 2000 4000 8000 16000 32000 O.D. 0.031 0.169 0.200 0.280 0.401 0.660 1.140 1.880
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human IGFBP4 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for IGFBP4 elisa kit	Principle of the assay: Human IGFBP4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for IGFBP4 has been precoated onto 96-well plates. Standards (NSO, D22-E258) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for IGFBP4 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human IGFBP4 amount of sample captured in plate. Background: Insulin-like growth factor-binding protein 4 is a protein that in humans is encoded by the IGFBP4gene. 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 binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma in both glycosylated and non-glycosylated forms. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors. In addition, IGFBP-4 is a unique protein and it consistently inhibits several cancer cells in vivo and in vitro. Its inhibitory action has been shown in vivo in prostate and colon. It is secreted by all colon cancer cells.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	62243290
NCBI GeneID	3487
NCBI Accession #	NP_001543.2
NCBI GenBank Nucleotide #	NM_001552.2
UniProt Accession #	P22692; Q5U012; Q9UCL6; A0N9W2; B4E351
Molecular Weight	17,635 Da
NCBI Official Full Name	insulin-like growth factor-binding protein 4
NCBI Official Synonym Full Names	insulin like growth factor binding protein 4
NCBI Official Symbol	IGFBP4
NCBI Official Synonym Symbols	BP-4; IBP4; IGFBP-4; HT29-IGFBP
NCBI Protein Information	insulin-like growth factor-binding protein 4
UniProt Protein Name	Insulin-like growth factor-binding protein 4
UniProt Gene Name	IGFBP4

UniProt Synonym Gene Names	IBP4; IBP-4; IGF-binding protein 4; IGFBP-4
UniProt Entry Name	IBP4_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://www.aaabiotech.com/human-elisa-kits/igfbp4-picokine/46148>