

IGFBP7 elisa kit

IGFBP7 Human ELISA Kit

CATALOG #
AAA59149

PRODUCT SYNONYMS

IGFBP7; IGFBP7 Human ELISA Kit; IGFBP7 elisa kit

PRODUCT SPECIFICATIONS

Sequence Length	282
Samples	Human serum, body fluids, tissue homogenate or cell culture supernatants
Assay Type	Quantitative Sandwich
Detection Range	625 pg/ml-40,000 pg/ml
Sensitivity	< 5 pg/ml
Preparation and Storage	Store at 2-8 degree C for 6 months, or at -20 degree C for 12 months.

IMAGES

Typical Data & Standard Curve
Results of a typical standard run of a Human IGFBP7 ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A-not applicable)

X	Pg/ml	0	625	1250	2500	5000	10000	20000	40000
Y	OD450	0.043	0.165	0.231	0.428	0.799	1.385	1.930	2.430

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for IGFBP7 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-IGFBP7 polyclonal antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-IGFBP7 polyclonal antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash with wash buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with wash buffer. TMB substrates were 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 IGFBP7 amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of IGFBP7 can be calculated.

Background/Introduction: Insulin-like growth factor-binding protein 7 is a protein that in humans is encoded by the IGFBP7 gene. Lymphangiogenesis is not only involved in the processes of embryonic development, tissue repair and chronic inflammation, but also in tumor lymphatic metastasis. Metastatic tumor cells spreading through lymphatic vessels occur in non-small cell lung carcinoma (NSCLC), with regional lymph node metastasis often being the most important prognostic factor for carcinoma patients. Insulin-like growth factor binding protein 7 (IGFBP7) was proven to be associated with metastatic clinicopathological features and high LVD. Furthermore, by assessing the capability of lymphatic endothelial cell forming lymphatic vessel-like structures in vitro, it appears to enhance lymphangiogenesis. As a very important transcription factor, signal transducer and activator of transcription 5a (Stat5a) has been reported to be involved in human reproductive cancers such as breast, prostate and ovarian cancer. The mitogenic effect of D5 Stat5a on breast cells is, at least partly, through up-regulation of histone methyltransferase, EZH2, and therefore inhibiting IGFBP-7 expression by increasing H3K27Me3 of IGFBP-7 promoter region.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23396609
NCBI GeneID	3490
UniProt Accession #	Q16270
NCBI Official Full Name	Insulin-like growth factor-binding protein 7
NCBI Official Synonym Full Names	insulin like growth factor binding protein 7
NCBI Official Symbol	IGFBP7
NCBI Official Synonym Symbols	AGM; PSF; TAF; FSTL2; IBP-7; MAC25; IGFBP-7; RAMSVPS; IGFBP-7v; IGFBPRP1
NCBI Protein Information	insulin-like growth factor-binding protein 7
UniProt Protein Name	Insulin-like growth factor-binding protein 7
UniProt Gene Name	IGFBP7
UniProt Synonym Gene Names	MAC25; PSF; IBP-7; IGF-binding protein 7; IGFBP-7; TAF
UniProt Entry Name	IBP7_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.

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Online datasheet: <https://www.aaabiotech.com/elisa-kits/igfbp7/59149>