IGFBP-3 ELISA Kit for Monkey

PRODUCT OVERVIEW

Product Name	IGFBP-3, ELISA Kit
Full Product Name	Monkey IGFBP-3 (Insulin Like Growth Factor Binding Protein 3) ELISA Kit
Product Gene Name	IGFBP-3 elisa kit
Species Reactivity	Monkey
Assay Type	Sandwich
Samples	Serum, Plasma, Biological Fluids
Detection Range	0.781-50ng/mL
Sensitivity	Min: 0.469ng/mL; Max: 50ng/mL
Specificity	This kit recognizes natural and some recombinant Monkey IGFBP-3. No Significant cross-reactivity or interference between Monkey IGFBP-3 and analogues was observed.
Preparation and Storage	Store at 4 degree C.
Molecular Weight	32,223 Da
OMIM	146732
3D Structure	ModBase 3D Structure for P17936
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for IGFBP-3 elisa kit	Intended Uses: This ELISA kit applies to the in vitro quantitative determination of Monkey IGFBP-3 concentrations in serum, plasma and other biological fluids. Principle of the Assay: This ELISA kit uses Sandwich-ELISA as the method. The micro ELISA plate provided in this kit has been pre-coated with an antibody specific to Monkey IGFBP-3. Standards or samples are added to the micro ELISA plate wells and combined with the specific antibody. Then a biotinylated detection antibody specific for Monkey IGFBP-3 and Avidin-Horseradish Peroxidase (HRP) conjugate are added to each micro plate well successively and incubated. Free components are washed away. The substrate solution is added to each well. Only those wells that contain Monkey IGFBP-3, biotinylated detection antibody and Avidin-HRP conjugate will appear blue in color. The enzyme-substrate reaction is terminated by the addition of stop solution and the color turns yellow. The optical density (OD) is measured spectrophotometrically at a wavelength of 450 nm ± 2 nm. The OD value is proportional to the concentration of Monkey IGFBP-3. You can calculate the concentration of Monkey IGFBP-3 in the samples by comparing the OD of the samples to the standard curve.
Other Notes	Small volumes of IGFBP-3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IGFBP-3 purchase	MBS2502528 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the IGFBP-3, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing IGFBP-3. The ELISA analytical biochemical technique of the MBS2502528 kit is based on IGFBP-3 antibody-IGFBP-3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect IGFBP-3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, IGFBP-3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IGFBP-3. It may not necessarily be applicable to this product.

NCBI GI #	62243068
NCBI GeneID	3486
NCBI Accession #	NP_000589.2
UniProt Primary Accession #	P17936
UniProt Secondary Accession #	Q2V509; Q6P1M6; Q9UCL4; A4D2F5; D3DVM0
UniProt Related Accession #	P17936
GenBank Nucleotide #	NM_000598.4
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
UniProt Protein Name	Insulin-like growth factor-binding protein 3
Protein Family	Insulin-like growth factor-binding protein
UniProt Gene Name	IGFBP3
UniProt Synonym Gene Names	IBP3; IBP-3; IGF-binding protein 3; IGFBP-3
UniProt Entry Name	IBP3_HUMAN
NCBI Protein Information	insulin-like growth factor-binding protein 3; IBP-3; IGF-binding protein 3; IGFBP-3; acid stable subunit of the 140 K IGF complex; binding protein 29; binding protein 53; growth hormone-dependent binding protein
NCBI Summary for IGFBP-3	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. [provided by RefSeq, Jul 2008]
UniProt Comments for IGFBP-3	IGFBP3: IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. Also exhibits IGF-independent antiproliferative and apoptotic effects mediated by its receptor TMEM219/IGFBP-3R. Protein type: Secreted, signal peptide; Cell development/differentiation; Secreted Chromosomal Location of Human Ortholog: 7p12.3 Cellular Component: insulin-like growth factor binding protein complex; extracellular space; extracellular region; nucleus Molecular Function: insulin-like growth factor binding; protein binding; insulin-like growth factor I binding; metal ion binding; fibronectin binding; insulin-like growth factor II binding; protein tyrosine phosphatase activator activity Biological Process: positive regulation of catalytic activity; positive regulation of insulin-like growth factor receptor signaling pathway; regulation of insulin-like growth factor receptor signaling pathway; apoptosis; negative regulation of smooth muscle cell proliferation; positive regulation of apoptosis; negative regulation of smooth muscle cell migration; protein amino acid phosphorylation; positive regulation of myoblast differentiation; negative regulation of signal transduction; osteoblast differentiation; negative regulation of cell proliferation; cellular protein metabolic process; negative regulation of protein amino acid phosphorylation; positive regulation of MAPKKK cascade; regulation of cell growth
Research Articles on IGFBP-3	**1.** Data indicate insulin-like growth factor (IGF)-binding protein-3 (IGFBP3) as a miR-21 target gene in glioblastoma and suggest that the oncogenic miRNA miR-21 down-regulates the expression of IGFBP3, which acts as a tumor suppressor in human glioblastoma.

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