

Human Insulin-Like Growth Factor-Binding Protein 3, IGFBP3 ELISA Kit | IGFBP3 elisa kit

Human Insulin-Like Growth Factor-Binding Protein 3, IGFBP3 Primacu ELISA Kit

CATALOG #
AAA124234

REACTIVITY
Human

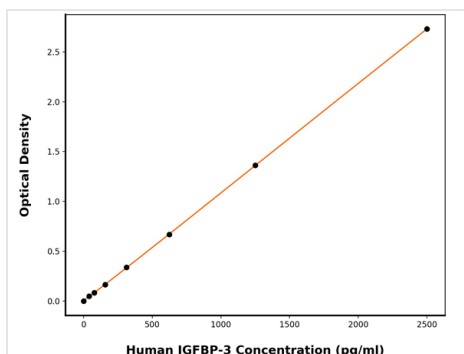
PRODUCT SYNONYMS

Insulin-Like Growth Factor-Binding Protein 3; IGFBP3; Human Insulin-Like Growth Factor-Binding Protein 3; IGFBP3 Primacu ELISA Kit; Insulin-like growth factor-binding protein 3; IGFBP-3; IBP3; IGFBP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Assay Type	Sandwich
Samples	Serum, plasma, cell culture supernates
Detection Range	39.06-2500pg/mL
Sensitivity	16.55pg/mL
Standard Solution	25ng/mL
Assay Time	3.5h
Preparation and Storage	Store at 2-8 degree C

IMAGES



Standard Curve (Sample)

Typical Testing Data/Standard Curve (for reference only)

ADDITIONAL INFORMATION

Related Product Information for IGFBP3 elisa kit	The Insulin-like Growth Factor (IGF) signaling system plays a central role in cellular growth, differentiation, and proliferation. IGFBP3 is the most abundant IGF binding protein in human serum and is a growth inhibitory, apoptosis-inducing molecule, capable of acting via IGF-dependent and IGF-independent mechanisms. It appears to function both by cell cycle blockade and the induction of apoptosis. IGFBP3 can be transported to the nucleus by an importin beta mediated mechanism, where it has been shown to interact with the retinoid X receptor alpha and possibly other nuclear elements. IGFBP3 antiproliferative signaling appears to require an active transforming growth factor-beta (TGF-beta) signaling pathway, and IGFBP3 stimulates phosphorylation of the TGF-beta signaling intermediates Smad2 and Smad3. IGFBP3 has IGF-independent roles in inhibiting cell proliferation in cancer cell lines. Nuclear transcription factor, retinoid X receptor (RXR)-alpha, and IGFBP3 functionally interact to reduce prostate tumor growth and prostate-specific antigen in vivo. Several clinical studies have proposed that individuals with IGFBP3 levels in the upper range of normal may have a decreased risk for certain common cancers. This includes evidence of a protective effect against breast cancer, prostate cancer, colorectal cancer, and lung cancer. Moreover, IGFBP3 inhibits insulin-stimulated glucose uptake into adipocytes independent of IGF.
Product Categories/Family for IGFBP3 elisa kit	Primacu ELISA Kit; Cancer; Cardiovascular; Cell biology; Signal transduction; Metabolism

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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/insulin-like-growth-factor-binding-protein-3-igfbp3/124234>