

Recombinant Human IGFBP2 Protein, His-tagged

Cat. No. IGFBP2-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGFBP2 Protein (297 AA, Ala36-Gln325) with a N-terminal His-tag (7 extra AA) was expressed in E. coli. Protein identity confirmed by LC-MS/MS.
Species	Human
Source	E.coli
ProteinLength	36-325
Description	The protein encoded by this gene is one of six similar proteins that bind insulin-like growth factors I and II (IGF-I and IGF-II). The encoded protein can be secreted into the bloodstream, where it binds IGF-I and IGF-II with high affinity, or it can remain intracellular, interacting with many different ligands. High expression levels of this protein promote the growth of several types of tumors and may be predictive of the chances of recovery of the patient. Several transcript variants, one encoding a secreted isoform and the others encoding nonsecreted isoforms, have been found for this gene.
Molecular Mass	32.4 kDa
AA Sequence	MHHHHHHAEEVLFRCPPCTPERLAACGPPPVAPPAAVAAGGARMPCAELVREPG CGCCSVCARLEGEACGVYTPRCGQGLRCYPHPGSELPLQALVMGEGTCEKRRDA EYGASPEQVADNGDDHSEGLVENHVDSTMNMLGGGGSAGRKPLKSGMKELAVF REKVTEQHRQMKGKGKHHGLLEPKKL RPPPARTPCQQELDQVLERISTMRLPDE RGPLEHLYSLHIPNCDKHGLYNLKQCKMSLNGQRGECWCVPNPNTGKLIQGAPTIRG

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	DPECHLFYNEQQEARGVHTQRMQ
Endotoxin	< 0.1 EU/g
Purity	> 95 %
Applications	WB, ELISA
Quality Control Test	BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein. LAL to determine quantity of endotoxin.
Storage	Store lyophilized protein at –80 centigrade. Lyophilized protein remains stable until the expiry date when stored at –80 centigrade. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 centigrade for long term storage. Reconstituted protein can be stored at 4 centigrade for a week.
Storage Buffer	Filtered (0.4 µm) and lyophilized from 0.5 mg/mL solution in phosphate buffered saline, pH 7.5.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.
Shipping	At ambient temperature. Upon receipt, store the product at the temperature recommended below.

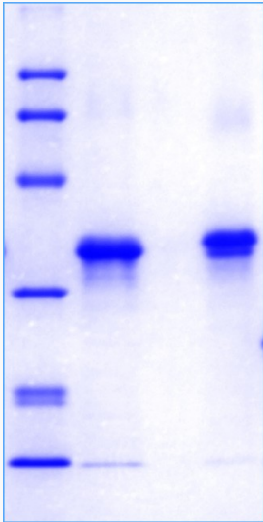
GENE INFORMATION

Gene Name	IGFBP2 insulin like growth factor binding protein 2 [Homo sapiens (human)]
Official Symbol	IGFBP2

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Synonyms	IGFBP2; insulin like growth factor binding protein 2; IBP2; IGF-BP53; insulin-like growth factor-binding protein 2; IGF-binding protein 2; insulin-like growth factor binding protein 2, 36kDa
Gene ID	3485
mRNA Refseq	NM_001313990
Protein Refseq	NP_001300919
MIM	146731
UniProt ID	P18065
SDS-PAGE Gel	 14 % SDS-PAGE separation of Human IGFBP-2: M.W. marker – 14, 21, 31, 45, 66, 97 kDa Reduced and boiled sample, 2.5 µg/lane Non-reduced and non-boiled sample, 2.5



μg/lane

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