

## Recombinant Human IGFBP2 Protein, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 36-325                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 32.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>AA Sequence</b>      | MHHHHHHAEEVLFRCPPCTPERLAACGPPPVAPPAAVAAGGARMPCAELVREPG<br>CGCCSVCARLEGEACGVYTPRCGQGLRCYPHPGSELPLQALVMGEGTCEKRRDA<br>EYGASPEQVADNGDDHSEGLVENHVDSTMNMLGGGGSAGRKPLKSGMKELAVF<br>REKVTEQHRQMKGKGKHHGLLEPKKL RPPPARTPCQQELDQVLERISTMRLPDE<br>RGPLEHLYSLHIPNCDKHGLYNLKQCKMSLNGQRGECWCVNPNTGKLIQGAPTIRG                                                                                                                                                                                                                                                                                                                          |

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|                             |                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | DPECHLFYNEQQEARGVHTQRMQ                                                                                                                                                                                                                                                                                                         |
| <b>Endotoxin</b>            | < 0.1 EU/g                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>               | > 95 %                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>         | WB, ELISA                                                                                                                                                                                                                                                                                                                       |
| <b>Quality Control Test</b> | BCA to determine quantity of the protein.<br>SDS PAGE to determine purity of the protein.<br>LAL to determine quantity of endotoxin.                                                                                                                                                                                            |
| <b>Storage</b>              | 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. |
| <b>Storage Buffer</b>       | Filtered (0.4 µm) and lyophilized from 0.5 mg/mL solution in phosphate buffered saline, pH 7.5.                                                                                                                                                                                                                                 |
| <b>Reconstitution</b>       | Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.                                                                                                                                                                                          |
| <b>Shipping</b>             | At ambient temperature. Upon receipt, store the product at the temperature recommended below.                                                                                                                                                                                                                                   |

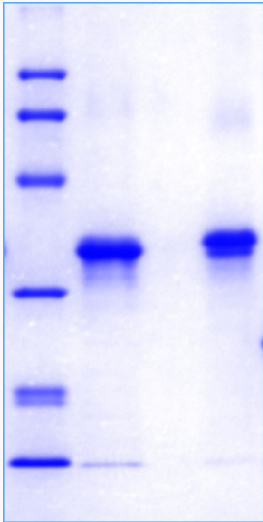
## GENE INFORMATION

|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IGFBP2 insulin like growth factor binding protein 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | IGFBP2                                                                       |

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|                       |                                                                                                                                                                                                                                                                             |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>       | 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                                                                              |
| <b>Gene ID</b>        | <a href="#">3485</a>                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>    | <a href="#">NM_001313990</a>                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b> | <a href="#">NP_001300919</a>                                                                                                                                                                                                                                                |
| <b>MIM</b>            | <a href="#">146731</a>                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>     | <a href="#">P18065</a>                                                                                                                                                                                                                                                      |
| <b>SDS-PAGE Gel</b>   |  <p>14 % SDS-PAGE separation of Human IGFBP-2:<br/> M.W. marker – 14, 21, 31, 45, 66, 97 kDa<br/> Reduced and boiled sample, 2.5 µg/lane<br/> Non-reduced and non-boiled sample, 2.5</p> |

µg/lane

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