



# Anti-IGFBP1 monoclonal antibody, clone 44738 (DCABY-3967)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

**Antigen Description** The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins. Some IGFBPs may also have intrinsic bioactivity that is independent of their ability to bind IGF proteins. Post-translational modifications of IGFBP, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF. ALS (Acid Labile Subunit) is a liver-derived protein that exists in a ternary complex with Insulin-like Growth Factor (IGF)-binding Protein-3 (IGFBP-3) or IGFBP-5, and either IGF-I or IGF-II. ALS increases the half-life of IGF/IGFBP complexes in circulation.

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|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Specificity</b>        | Detects human IGFBP-1 in ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant human (rh) IGFBP-2, rhIGFBP-3, or rhIGFBP-4. |
| <b>Immunogen</b>          | E. coli-derived recombinant human IGFBP-1                                                                                                                             |
| <b>Isotype</b>            | IgG1                                                                                                                                                                  |
| <b>Source/Host</b>        | Mouse                                                                                                                                                                 |
| <b>Species Reactivity</b> | Human                                                                                                                                                                 |
| <b>Clone</b>              | 44738                                                                                                                                                                 |
| <b>Purification</b>       | Protein A or G purified from ascites                                                                                                                                  |
| <b>Conjugate</b>          | Unconjugated                                                                                                                                                          |
| <b>Applications</b>       | Western Blot, ELISA Capture (Matched Pair), Neutralization                                                                                                            |
| <b>Procedure</b>          | Matched Antibody Pairs                                                                                                                                                |
| <b>Format</b>             | Liquid                                                                                                                                                                |
| <b>Size</b>               | 500 µg                                                                                                                                                                |
| <b>Buffer</b>             | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.                                                                                                    |

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| <b>Preservative</b> | None                                                                                                                                                                                                                                                                            |
| <b>Storage</b>      | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <p>12 months from date of receipt, -20 to -70 °C as supplied.</p> <p>1 month from date of receipt, 2 to 8 °C, reconstituted.</p> <p>6 months from date of receipt, -20 to -70 °C, reconstituted.</p> |

## GENE INFORMATION

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">IGFBP1 insulin-like growth factor binding protein 1 [ Homo sapiens (human) ]</a>                                                                                                                                                                    |
| <b>Official Symbol</b>     | IGFBP1                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>            | IGFBP1; insulin-like growth factor binding protein 1; AFBP; IBP1; PP12; IGF-BP25; hIGFBP-1; insulin-like growth factor-binding protein 1; IBP-1; IGFBP-1; binding protein-25; binding protein-26; binding protein-28; placental protein 12; IGF-binding protein |
| <b>Entrez Gene ID</b>      | <a href="#">3484</a>                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | <a href="#">NP_000587</a>                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | <a href="#">P08833</a>                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 7p13-p12                                                                                                                                                                                                                                                        |
| <b>Pathway</b>             | ATF4 activates genes; AhR pathway; FOXA2 and FOXA3 transcription factor networks; HIF-1-alpha transcription factor network; Metabolism of proteins; Myometrial Relaxation and Contraction Pathways; PERK regulates gene expression; Regulation of Insulin-like  |
| <b>Function</b>            | insulin-like growth factor binding;                                                                                                                                                                                                                             |