# IGFBP5 Antibody – Mouse Monoclonal

## PRODUCT OVERVIEW

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| **Product Name** | IGFBP5, Monoclonal Antibody |
| **Full Product Name** | Anti-IGFBP5 (Insulin-like Growth Factor-binding Protein 5, IBP-5, IGF-binding Protein 5, IGFBP-5, IBP5) |
| **Product Gene Name** | anti-Igfbp5 antibody |
| **Product Synonym Names** | Insulin-like Growth Factor-binding Protein 5; IBP-5; IGF-binding Protein 5; IGFBP-5; IBP5 |
| **Clonality** | Monoclonal |
| **Isotype** | IgG1 |
| **Clone Number** | 11C123 |
| **Host** | Mouse |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, 1% trehalose. |
| **Purity/Purification** | Affinity Purified |
| **Concentration** | ~1mg/ml (lot specific) |
| **Specificity** | Recognizes human IGFBP5. |
| **Preparation and Storage** | May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.<br>**Shipping Temperature:** Blue Ice |
| **Molecular Weight** | 30,298 Da |
| **Chromosome Location** | Chromosome: 9; NC_005108.2 (72003637..72016263, complement). Location: 9q33 |
| **3D Structure** | ModBase 3D Structure for P24594 |
| **Immunogen** | Recombinant corresponding to human IGFBP5, expressed in E. coli. |
| **Source Information** | Human |
| **Product Categories/Family for anti-Igfbp5 antibody** | Abs to Growth Factors; Cytokines |
| **Applications Tested/Suitable for anti-Igfbp5 antibody** | ELISA; Western Blot |
| **Application Notes for anti-Igfbp5 antibody** | **Recommended Dilutions:** Western Blot: 1-2ug/ml<br>ELISA: 1:10,000 (using 50-100ng control peptide/well) |

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| **Related Product Information for anti-Igfbp5 antibody** | The insulin like growth factors (IGFs) are the major growth- promoting factors in the plasma. IGFs are secreted by a variety of cells and exert a multitude of effects on cellular survival, growth and differentiation. The A and B domains of IGFs are identical to insulin. IGF initiates their biological action through binding to the type IGF receptor (IGF-1R), a heterotrimeric protein complex with a tyrosine kinase activity. The IGF-IIR lacks the kinase activity and is actually identical to the mannose- 6-phophate receptor. Unlike most other peptide hormones, IGFs are complexed with specific binding proteins in the plasma known IGF Binding proteins (IGFBPs). At least 6 related IGFBPs (IGFBP1-6) have been well characterized. Recently, IGFBP-7/Mac25/prostacyclin- stimulating factor (PSF)/tumor adhesion factor (TAF) was originally identified as a cDNA derived from leptomeninges. These proteins are present in plasma in high concentration as compared to the membrane IGFRs. Therefore, IGFBPs have the potential to modulate the IGF action. IGFBPs have been shown to either inhibit or stimulate the IGF effects. The primary structures of mammalian IGFBPs appear to contain three distinct domains of roughly equivalent sizes: the conserved N-terminal domain, the highly variable mid region, and the conserved C-terminal domain. Human IGFBPs share approximately 36% identity.<br><br>Human IGFBP-5 is a 252aa mature protein that is expressed by fibroblasts, myoblasts and osteoblasts, making it the predominant IGFBP found in bone extracts. IGFBP-5 has a strong affinity for hydroxyapatite, allowing it to bind to bone cells. When bound to extracellular matrix, IGFBP-5 is protected from proteolysis and potentiates IGF activity, but when it is soluble, IGFBP-5 is cleaved to a biologically inactive 21kD fragment. |
| **Other Notes** | Small volumes of anti-Igfbp5 antibody 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 Igfbp5 purchase** | MBS632949 is an antibody targeting Igfbp5. Also known as Anti-IGFBP5 (Insulin-like Growth Factor-binding Protein 5, IBP-5, IGF-binding Protein 5, IGFBP-5, IBP5). Reactive in Human. Host: Mouse. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Igfbp5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 6981088 |
| **NCBI GeneID** | 25285 |
| **NCBI Accession #** | NP_036949.1 |
| **UniProt Primary Accession #** | P24594 |
| **UniProt Related Accession #** | P24594 |
| **GenBank Nucleotide #** | NM_012817.1 |
| **NCBI Official Full Name** | insulin-like growth factor-binding protein 5 |
| **NCBI Official Synonym Full Names** | insulin-like growth factor binding protein 5 |
| **NCBI Official Symbol** | Igfbp5 |
| **NCBI Official Synonym Symbols** | IGF-BP5 |
| **UniProt Protein Name** | Insulin-like growth factor-binding protein 5 |
| **Protein Family** | Insulin-like growth factor-binding protein |
| **UniProt Gene Name** | Igfbp5 |
| **UniProt Synonym Gene Names** | Igfbp-5 |
| **UniProt Entry Name** | IBP5_RAT |
| **NCBI Protein Information** | insulin-like growth factor-binding protein 5; IBP-5; IGFBP-5; IGF-binding protein 5 |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |

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