

**bs-43004R****[ Primary Antibody ]****IGFBP1 Rabbit pAb****Bioss**  
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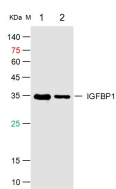
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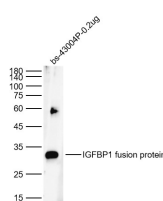
400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 3484 <b>Target:</b> IGFBP1 <b>Immunogen:</b> Recombinant human IGFBP1 protein: 26-259/259. <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> Insulin like growth factor binding protein 1 (IGFBP1) is a member of the superfamily of insulin like growth factor (IGF) binding proteins which include six high affinity IGF binding proteins (IGFBP) and at least four low affinity binding proteins referred to as IGFBP related proteins (IGFBPrP). The IGFBP members are cysteine rich proteins with conserved cysteine residues clustered in the amino terminal and the carboxy terminal regions of the molecule. The N terminal and C terminal regions are highly homologous among rat, human and bovine sequences. Contained within IGFBP1 and 2 is an integrin receptor recognition sequence (RGD) that is responsible for promoting cell migration by an IGF independent action. IGFBPs hold a central position in IGF ligand receptor interactions through influences on both the bioavailability and distribution of IGFs in the extracellular environment. IGFBPs will either inhibit or enhance the biological activities of IGF or act in an IGF independent manner. Post translational modification of IGFBPs, including phosphorylation and proteolysis, will modify the affinities of the binding proteins for IGF and may indirectly regulate IGF actions. IGFBP1 is expressed in liver, decidua, and kidneys and is the major IGF binding protein in human amniotic fluid. In hepatocytes, IGFBP1 production is regulated at the transcriptional level due to the effects of insulin and corticosteroids. IGFBP1 is the major determinant of the level of free IGF in serum. The expression of IGFBP1 is inhibited by insulin, IGF1, and IGFII and is stimulated by glucocorticoids, thyroid hormone, and epidermal growth factor (EGF), indicating an endocrine function. IGFBP1 shows inhibitory actions on cell proliferation and differentiation, presumably by interfering with the interactions between IGF and the IGF receptor (IGFR).	<b>Isotype:</b> IgG <b>SWISS:</b> P08833 <b>Applications:</b> WB (1:500-2000) <b>Reactivity:</b> Human  <b>Predicted MW.:</b> 30 kDa <b>Subcellular Location:</b> Secreted
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**— VALIDATION IMAGES —**

Sample: Lane 1: Human IGFBP1 Protein at 500ng  
 Lane 2: Human IGFBP1 Protein at 50ng Primary: Rabbit Anti-IGFBP1 Protein Antibody at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 29kD Observed band size: kD



Sample: Lane 1: Recombinant human IGFBP1 protein, His (HEK293) (bs-43004P) Primary: Anti-IGFBP1 (bs-43004R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30kDa Observed band size: 30kDa