



# Goat anti Human IGFBP5 polyclonal antibody [Biotin] (CABT-L193)

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

## PRODUCT INFORMATION

<b>Specificity</b>	Detects human IGFBP-5 in ELISAs and Western blots. In sandwich immunoassays, less than 10% cross-reactivity with recombinant mouse IGFBP-5 is observed and less than 0.5% cross-reactivity with recombinant human (rh) IGFBP-2, rhIGFBP-3, rhIGFBP-4, and rhIGFBP-6 is observed.
<b>Target</b>	IGFBP-5
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human IGFBP-5, Glu28-Glu272, Accession #P24593
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	ELISA(Det), WB
<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Format</b>	Lyophilized
<b>Size</b>	50 µg
<b>Buffer</b>	PBS with BSA
<b>Preservative</b>	None

<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.
<b>Ship</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

## BACKGROUND

<b>Introduction</b>	<p>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. Human IGFBP-5 cDNA encodes a 272 amino acid (aa) residue precursor protein with a putative 20 aa residue signal peptide that is processed to generate the 252 aa residue mature protein that is post-translationally modified by O-glycosylations and serine phosphorylations. IGFBP-5 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 21 kDa fragment.</p>
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<b>Keywords</b>	IBP5IBP-5;IGF-binding protein 5;IGFBP5;IGFBP-5;insulin-like growth factor binding protein 5;insulin-like growth factor-binding protein 5
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## GENE INFORMATION

<b>Entrez Gene ID</b>	<a href="#">3488</a>
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<b>UniProt ID</b>	<a href="#">P24593</a>
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