IGFBP-5 Monoclonal Antibody(Detector)

catalog number: AN001210P

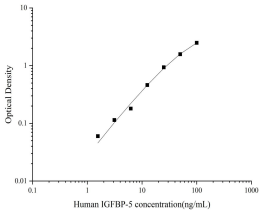
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant Human IGFBP-5 protein expressed by E.coli
Host	Mouse
Isotype	Mouse IgG2b
Clone	8A5
Purification	Protein A/G Purification
Buffer	Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications	Recommended Dilution
ELISA Detector	0.1-0.4 μg/mL

Data



Sandwich ELISA-Recombinant Human IGFBP-5 protein standard curve.Background subtracted standard curve using IGFBP-5 antibody(AN001200P)(Capture),IGFBP-5 antibody(AN001210P)(Detector) in sandwich ELISA.The reference range value for Recombinant Human IGFBP-5 protein is 1.5625-100 ng/mL.

Preparation & Storage

Storage	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

Background

Toll-free: 1-888-852-8623
Web:www.elabscience.com
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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 IGFBPs,including glycosylation,phosphorylation and proteolysis,have been shown to modify the affinities of the binding proteins to IGF.

Mouse IGFBP-5 cDNA encodes a 271 amino acid (aa) residue precursor protein with a putative 19 aa residue signal peptide that is processed to generate the 252 aa residue mature protein. Mouse,human and rat IGFBP-5 share 97% identity. 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 extracelluar 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.

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