

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IGFBP-3 in ELISAs and Western blots. In sandwich immunoassays, less than 0.25% cross-reactivity with recombinant human (rh) IGF-I R, rhIGFBP-1, rhIGFBP-2, rhIGFBP-4, rhIGFBP-5, and rhIGFBP-6 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 84728
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IGFBP-3 Gly28-Lys291 Accession # CAA46087
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

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.

Human IGFBP-3 cDNA encodes a 291 amino acid (aa) residue precursor protein with a putative 27 aa residue signal peptide that is processed to generate the 264 aa residue mature protein with three potential N-linked and two potential O-linked glycosylation sites. Human IGFBP-3 is expressed in multiple tissues. The highest expression level is found in the non-paranchymal cells of the liver. Expression levels are also higher during extrauterine life and peak during puberty. Human IGFBP-3 is the major IGF binding protein in plasma where it exists in a ternary complex with IGF-I or IGF-II and the acid-labile subunit (ALS).

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