

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IGFBP-6 in ELISAs and Western blots. In Western blots, 10% cross-reactivity with recombinant human (rh) IGFBP-3 and rhIGFBP-5 is observed and no cross-reactivity with rhIGFBP-1, recombinant mouse (rm) IGFBP-1, rhIGFBP-2, rmlGF
Source	Monoclonal Rat IgG _{2A} Clone # 122312
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IGFBP-6 Gly24-Gly238 Accession # P47880
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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. Mouse IGFBP-6 cDNA encodes a 238 amino acid (aa) precursor protein with a putative 25 aa signal peptide that is processed to generate the 213 aa mature protein that is O-glycosylated. Mouse and human IGFBP-6 share 73% aa similarity. Mouse and rat IGFBP-6 share 94% aa similarity and the mouse IGFBP-6 has a 9 amino acid insertion compared to the rat homolog. IGFBP-6 is expressed in ovarian, testicular, muscle, heart and lung tissues in the adult mouse. IGFBP-6 was not detected in total RNA from a whole mouse embryo.

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