Mouse IGFBP-6 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF776

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IGFBP-6 in direct ELISAs and Western blots. In direct ELISAs, approximately 15% cross-reactivity with recombinant human (rh) IGFBP-6 is observed and less than 1% cross-reactivity with rhIGFBP-1, rhIGFBP-2, rhIGFBP-3, rhIGFBP-4, and rhIGFBP-5 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IGFBP-6 Gly24-Gly238 Accession # P47880
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose.

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.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse IGFBP-6 (Catalog # 776-B6)
Immunohistochemistry	5-15 µg/mL	Perfusion fixed frozen sections of mouse ovary

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**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.

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) residue precursor protein with a putative 25 aa residue signal peptide that is processed to generate the 213 aa residue mature protein that is O-glycosylated. Mouse and human IGFBP-6 share 73% amino acid similarity. Mouse and rat IGFBP-6 share 94% amino acid 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.

References:

1. Schuller, A.G.P. *et al.* (1994) Mol. Cell. Endoc. **104**:57.
2. Jones, J.I. and D.R. Clemmons (1995) Endocrine Rev. **16**:3.
3. Kelley, K.M. *et al.* (1996) Int. J. Biochem. Cell Biol. **28**:619.

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449