

# **Mouse IGFBP-3 Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF775

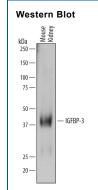
DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IGFBP-3 in direct ELISAs and Western blots. In direct ELISAs, approximately 5% cross-reactivity with recombinant human (rh) IGFBP-3 is observed and less than 1% cross-reactivity with rhIGFBP-1, rhIGFBP-2, rhIGFBP-4, rhIGFBP-5, rhIGFBP-6, and recombinant mouse IGFBP-6 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IGFBP-3 (R&D Systems, Catalog # 775-B3) Pro22-Gln291 with Arg250Gln, Gln259Arg, Ser260Gly, Arg271Pro substitutions Accession # P47878
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

#### **APPLICATIONS**

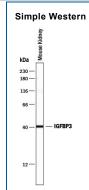
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.2 μg/mL	See Below
Simple Western	10 μg/mL	See Below

# DATA



**Detection of Mouse IGFBP-3** by Western Blot. Western blot shows lysates of mouse kidney tissue. PVDF membrane was probed with 0.2 µg/mL of Goat Anti-Mouse IGFBP-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF775) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # HAF109). A specific band was detected for IGFBP-3 at approximately 40 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1



Detection of Mouse IGFBP-3 by Simple Western<sup>™</sup>. Simple Western lane view shows lysates of mouse kidney tissue, loaded at 0.2 mg/mL. A specific band was detected for IGFBP-3 at approximately 41 kDa (as indicated) using 10  $\mu g/mL$  of Goat Anti-Mouse IGFBP-3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF775) followed by 1:50 dilution of HRPconjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

# PREPARATION AND STORAGE

FREFARATION 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.	
	<ul> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> </ul>	
	<ul> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> </ul>	
	<ul> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>	

#### 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-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 glycosylation sites. Mouse and human IGFBP-3 share 81% amino acid homology. Mouse IGFBP-3 is expressed in multiple tissues.

### References:

1. Schuller, A.G.P. et al. (1994) Mol. Cell. Endoc. 104:57.

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