

IGFBP2 Antibody

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	35	Rabbit	#P18065	3485

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

IGFBP2 Antibody detects endogenous levels of total IGFBP2 protein. It does not cross-react with other IGFBP family members.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the residues at the carboxy-terminal sequence of human IGFBP2. The antibodies are purified by protein A and peptide affinity chromatography.

Background

Insulin-like growth factor-binding proteins (IGFBPs) play an integral role in modifying insulin-like growth factor (IGF) actions in various cell types. This family contains six members that are structurally related but encoded by distinct genes. IGFBPs have a high affinity for IGFs. Some IGFBP family members have been consistently shown to inhibit IGF actions by preventing them from gaining access to IGF receptors, while others potentiate IGF actions by facilitating the ligand-receptor interaction (1-3). IGFBP2 is the second most abundant IGFBP in the circulation and is present in various other biological fluids and tissues of many vertebrate species. Serum IGFBP2 levels are elevated in conditions such as shock, fasting, hypoxemia, or after traumata, suggesting complex regulation of IGFBP2 expression (4). IGFBP2 is overexpressed in many malignancies and is often correlated with an increasingly malignant tumor status, pointing to a potential involvement of IGFBP2 in tumorigenesis (5).

Background References

1. Duan, C. (2002) *J Endocrinol* 175, 41-54.
2. Sandhu, M.S. et al. (2002) *J Natl Cancer Inst* 94, 972-80.
3. Baxter, R.C. (2001) *Best Pract Res Clin Endocrinol Metab* 15, 421-34.
4. Noel, M. et al. (2001) *Curr. Opin. Clin. Nutr. Metab. Care* 4, 399-405.
5. Zumkeller, W. (2001) *Mol. Pathol.* 54, 285-288.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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