

IGFBP7 Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit	UniProt ID: #Q16270	Entrez-Gene Id: 3490
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		IGFBP7 Antibody recognizes endogenous levels of total IGFBP7 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human IGFBP7 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		IGFBP7 (also known as Mac25, TAF, or IGFBP-rP1) belongs to the IGFBP superfamily, which plays an integral role in regulating insulin-like growth factor (IGF) actions in a wide variety of cell types. There are six known high-affinity IGF binding family members (IGFBP1-6), and ten low-affinity IGF binding members. These family members are structurally related, but encoded by distinct genes (1,2). IGFBP7 is a low-affinity IGF binding protein (1). The protein functions through its binding to secreted growth factors including IGF1, insulin, and activin (3,4). IGFBP7 levels have been related to cancer development and tissue injury. Loss of expression of IGFBP7 has been associated with poor survival in multiple cancer types (5,6) and with tumor chemotherapy resistance (7,8). IGFBP7 also has been identified as a cell cycle arrest biomarker for human acute kidney injury (AKI) and serves as a prognostic indicator for early stage AKI development (9-11).				
Background References		1. Hwa, V. et al. (1999) Endocr Rev 20, 761-87. 2. Duan, C. (2002) J Endocrinol 175, 41-54. 3. Yamanaka, Y. et al. (1997) J Biol Chem 272, 30729-34. 4. Kato, M.V. (2000) Mol Med 6, 126-35. 5. Akiel, M. et al. (2014) J Hepatocell Carcinoma 1, 9-19. 6. Benatar, T. et al. (2012) Breast Cancer Res Treat 133, 563-73. 7. Verhagen, H.J. et al. (2014) Cell Death Dis 5, e1300. 8. Okamura, J. et al. (2012) Cancer Biol Ther 13, 148-55. 9. Kashani, K. et al. (2013) Crit Care 17, R25. 10. Kellum, J.A. and Chawla, L.S. (2016) Nephrol Dial Transplant 31, 16-22. 11. Gocze, I. et al. (2015) PLoS One 10, e0120863.				

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

Cross-Reactivity Key H: Human

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