

#86641 Store at -20°C

## CTGF (D8Z8U) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IF-IC	H	Endogenous	35	Rabbit IgG	#P29279	1490

<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunofluorescence (Immunocytochemistry)	<b>Dilution</b> 1:1000 1:50 - 1:200
<b>Storage</b>	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
<b>Specificity / Sensitivity</b>	CTGF (D8Z8U) Rabbit mAb recognizes endogenous levels of total CTGF protein. By Western blot analysis, the antibody detects a 120 kDa protein of unknown identity in both CTGF-positive and CTGF-negative cell lines.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val174 of human CTGF protein.	
<b>Background</b>	Connective tissue growth factor (CTGF, CCN2) belongs to the CCN (CYR61, CTGF, NOV) family of secreted extracellular matrix (ECM) proteins (1). Members of this family contain four conserved cysteine-rich domains, and interact in the ECM with a diverse array of cell surface receptors, including integrins and heparin-sulfate proteoglycans (2). These interactions regulate a multitude of cellular and tissue functions, including adhesion, proliferation, migration, differentiation, senescence, angiogenesis, inflammation, and wound repair (1,3-5). The <i>CTGF</i> gene is a transcriptional target of both YAP/TAZ and TGFβ-SMAD signaling pathways (6,7), and aberrant regulation of CTGF expression is strongly associated with pathological conditions, notably cancer and fibrosis (8,9).	
<b>Background References</b>	1. Chen, C.C. and Lau, L.F. (2009) <i>Int J Biochem Cell Biol</i> 41, 771-83. 2. Gao, R. and Brigstock, D.R. (2004) <i>J Biol Chem</i> 279, 8848-55. 3. Hall-Glenn, F. and Lyons, K.M. (2011) <i>Cell Mol Life Sci</i> 68, 3209-17. 4. Hashimoto, G. et al. (2002) <i>J Biol Chem</i> 277, 36288-95. 5. Ivkovic, S. et al. (2003) <i>Development</i> 130, 2779-91. 6. Di Benedetto, A. et al. (2016) <i>Oncotarget</i> 7, 43188-43198. 7. Liu, H. et al. (2015) <i>Cell Biochem Biophys</i> 73, 775-81. 8. Brigstock, D.R. (2010) <i>J Cell Commun Signal</i> 4, 1-4. 9. Jun, J.I. and Lau, L.F. (2011) <i>Nat Rev Drug Discov</i> 10, 945-63.	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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