

#10095 Store at -20°C

CTGF (E2W5M) Rabbit mAb**Cell Signaling**
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For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications: | Reactivity: | Sensitivity: | MW (kDa): | Source/Isotype: | UniProt ID: | Entrez-Gene Id: |
|---------------|-------------|--------------|-----------|-----------------|-------------|-----------------|
| WB | H | Endogenous | 16-20, 35 | Rabbit IgG | #P29279 | 1490 |

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| Product Usage Information | Application Western Blotting | Dilution 1:1000 |
| Storage | 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. | |
| Specificity / Sensitivity | CTGF (E2W5M) Rabbit mAb recognizes endogenous levels of total CTGF protein. This antibody recognizes both full-length CTGF, and cleaved C-terminal fragments of CTGF, which vary in length (16-20 kDa) depending upon cleavage context. | |
| Species predicted to react based on 100% sequence homology: | Chicken, Bovine | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro265 of human CTGF protein. | |
| Background | 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). | |
| Background References | <ol style="list-style-type: none"> Chen, C.C. and Lau, L.F. (2009) <i>Int J Biochem Cell Biol</i> 41, 771-83. Gao, R. and Brigstock, D.R. (2004) <i>J Biol Chem</i> 279, 8848-55. Hall-Glenn, F. and Lyons, K.M. (2011) <i>Cell Mol Life Sci</i> 68, 3209-17. Hashimoto, G. et al. (2002) <i>J Biol Chem</i> 277, 36288-95. Ivkovic, S. et al. (2003) <i>Development</i> 130, 2779-91. Di Benedetto, A. et al. (2016) <i>Oncotarget</i> 7, 43188-43198. Liu, H. et al. (2015) <i>Cell Biochem Biophys</i> 73, 775-81. Brigstock, D.R. (2010) <i>J Cell Commun Signal</i> 4, 1-4. Jun, J.I. and Lau, L.F. (2011) <i>Nat Rev Drug Discov</i> 10, 945-63. | |

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| 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 | WB: Western Blotting |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
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