

Store at
-20C
#86641**CTGF (D8Z8U) Rabbit mAb**

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

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

Western Blotting
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50 - 1:200

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.

For a carrier free (BSA and azide free) version of this product see product #92687.

Specificity/Sensitivity

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.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val174 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 *CTGF* 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

1. Chen, C.C. and Lau, L.F. (2009) *Int J Biochem Cell Biol* 41, 771-83.
2. Gao, R. and Brigstock, D.R. (2004) *J Biol Chem* 279, 8848-55.
3. Hall-Glenn, F. and Lyons, K.M. (2011) *Cell Mol Life Sci* 68, 3209-17.
4. Hashimoto, G. et al. (2002) *J Biol Chem* 277, 36288-95.
5. Ivkovic, S. et al. (2003) *Development* 130, 2779-91.
6. Di Benedetto, A. et al. (2016) *Oncotarget* 7, 43188-43198.
7. Liu, H. et al. (2015) *Cell Biochem Biophys* 73, 775-81.
8. Brigstock, D.R. (2010) *J Cell Commun Signal* 4, 1-4.
9. Jun, J.I. and Lau, L.F. (2011) *Nat Rev Drug Discov* 10, 945-63.

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 **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human

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