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# Anti-CYR61/CCN1 Antibody

Catalog # ABO12236

## Product Information

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| **Application** | WB |
| **Primary Accession** | O00622 |
| **Host** | Rabbit |
| **Reactivity** | Human, Rat |
| **Clonality** | Polyclonal |
| **Format** | Lyophilized |
| **Description** | Rabbit IgG polyclonal antibody for Protein CYR61(CYR61) detection. Tested with WB in Human;Rat. |
| **Reconstitution** | Add 0.2ml of distilled water will yield a concentration of 500ug/ml. |

## Additional Information

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| **Gene ID** | 3491 |
| **Other Names** | Protein CYR61, CCN family member 1, Cysteine-rich angiogenic inducer 61, Insulin-like growth factor-binding protein 10, IBP-10, IGF-binding protein 10, IGFBP-10, Protein GIG1, CYR61, CCN1, GIG1, IGFBP10 |
| **Calculated MW** | 42027 |
| **Application Details** | Western blot, 0.1-0.5 □g/ml, Human, Rat |
| **Subcellular Localization** | Secreted. |
| **Source** | Eukaryota |
| **Protein Name** | Protein CYR61 |
| **Contents** | Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3. |
| **Immunogen** | E.coli-derived human CCN1 recombinant protein (Position: K54-D381). Human CCN1 shares 91.8% and 92.1% amino acid (aa) sequence identity with mouse and rat CCN1, respectively. |
| **Purification** | Immunogen affinity purified. |
| **Cross Reactivity** | No cross reactivity with other proteins |
| **Storage** | At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing. |
| **Sequence Similarities** | Belongs to the CCN family. |

## Protein Information

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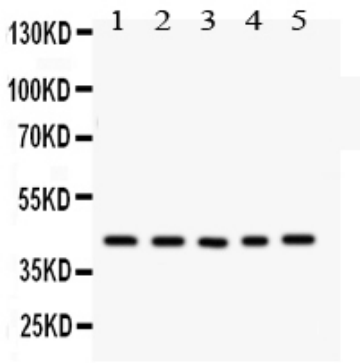
| **Name** | CCN1 ( HGNC:2654) |
| **Function** | Promotes cell proliferation, chemotaxis, angiogenesis and cell adhesion. Appears to play a role in wound healing by up- regulating, in skin fibroblasts, the expression of a number of genes involved in angiogenesis, inflammation and matrix remodeling including VEGA-A, VEGA-C, MMP1, MMP3, TIMP1, uPA, PAI-1 and integrins alpha-3 and alpha-5. CCN1-mediated gene regulation is dependent on heparin-binding. Down-regulates the expression of alpha-1 and alpha-2 subunits of collagen type-1. Promotes cell adhesion and adhesive signaling through integrin alpha-6/beta-1, cell migration through integrin alpha-v/beta-5 and cell proliferation through integrin alpha-v/beta-3. |
| **Cellular Location** | Secreted. |

## Background

Cysteine-rich angiogenic inducer 61 (CYR61) or CCN family member 1 (CCN1), is a matricellular protein that in humans is encoded by the CYR61 gene. CYR61 is a secreted, extracellular matrix (ECM)-associated signaling protein of the CCN family (CCN intercellular signaling protein). And it is capable of regulating a broad range of cellular activities, including cell adhesion, migration, proliferation, differentiation, apoptosis, and senescence through interaction with cell surface integrin receptors and heparan sulfate proteoglycans. During embryonic development, CYR61 is critical for cardiac septal morphogenesis, blood vessel formation in placenta, and vascular integrity. In adulthood CYR61 plays important roles in inflammation and tissue repair, and is associated with diseases related to chronic inflammation, including rheumatoid arthritis, atherosclerosis, diabetes-related nephropathy and retinopathy, and many different forms of cancers.

## Images




Anti- CCN1 Picoband antibody, ABO12236, Western blottingAll lanes: Anti CCN1 (ABO12236) at 0.5ug/mlLane 1: Rat Thymus Tissue Lysate at 50ugLane 2: Rat Skeletal Muscle Tissue Lysate at 50ugLane 3: A431 Whole Cell Lysate at 40ugLane 4: SGC Whole Cell Lysate at 40ugLane 5: 22RV1 Whole Cell Lysate at 40ugPredicted bind size: 42KDgObserved bind size: 42KD