

Cyr61 (C-20): sc-8561

BACKGROUND

Cyr61 is a secreted heparin binding protein, encoded by a growth factor-inducible immediate-early gene, that associates with the extracellular matrix and connective tissue. Cyr61 is a member of a distinct family of angiogenic and vasculogenic regulators designated CCN proteins, which includes connective tissue growth factor (CTGF) and the mouse Cyr61 homolog, Fisp12. As an angiogenic inducer, Cyr61 binds to the cell surface receptor integrin $\alpha v \beta 3$, where it then stimulates cell adhesion and migration and promotes DNA synthesis of human vascular endothelial cells. Expression of Cyr61 is elevated during vessel growth, wound healing and chondrocyte differentiation. Cyr61 is also detected in a wide variety of tumors as it induces tumor growth and functions as a marker of tumor progression.

CHROMOSOMAL LOCATION

Genetic locus: CYR61 (human) mapping to 1p22.3; Cyr61 (mouse) mapping to 3 H2.

SOURCE

Cyr61 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Cyr61 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-8561 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Cyr61 (C-20) is recommended for detection of Cyr61 of human and, to a lesser extent, mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Cyr61 (C-20) is also recommended for detection of Cyr61 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Cyr61 siRNA (h): sc-39331, Cyr61 siRNA (m): sc-39332, Cyr61 shRNA Plasmid (h): sc-39331-SH, Cyr61 shRNA Plasmid (m): sc-39332-SH, Cyr61 shRNA (h) Lentiviral Particles: sc-39331-V and Cyr61 shRNA (m) Lentiviral Particles: sc-39332-V.

Molecular Weight of Cyr61: 40 kDa.

Positive Controls: FHs 173We cell lysate: sc-2417.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

SELECT PRODUCT CITATIONS

- Hilfiker, A., et al. 2002. Expression of CYR61, an angiogenic immediate early gene, in arteriosclerosis and its regulation by angiotensin II. *Circulation* 106: 254-260.
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RESEARCH USE

For research use only, not for use in diagnostic procedures.

MONOS
Satisfaction
Guaranteed

Try **Cyr61 (A-10): sc-374129** or **Cyr61 (H-2): sc-271217**, our highly recommended monoclonal alternatives to Cyr61 (C-20).