

Rabbit anti-Human CYR61 Polyclonal Antibody | anti-CYR61 antibody

CYR61 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326031	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

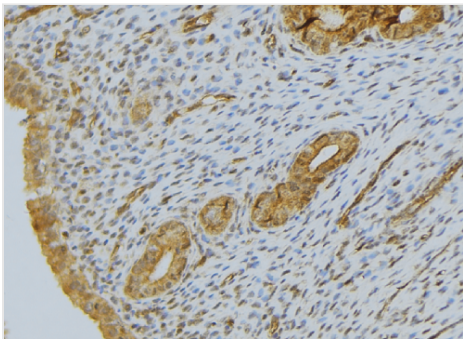
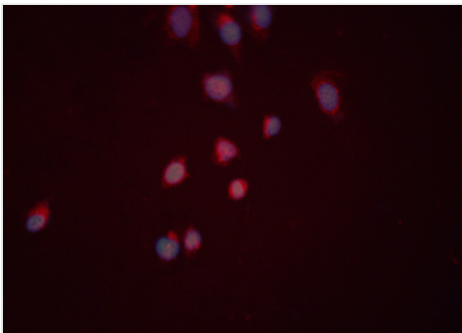
PRODUCT SYNONYMS

CYR61; Polyclonal Antibody; CYR61 Antibody; 3CH61; CCN 1; CCN family member 1; CYR 61; Cyr61; CYR61 protein; CYR61_HUMAN; Cysteine rich angiogenic inducer 61; Cysteine rich heparin binding protein 61; Cysteine-rich angiogenic inducer 61; GIG 1; GIG1; IBP-10; IGF-binding protein 10; Igfbp 10; IGFBP-10; Igfbp10; Insulin like growth factor binding protein 10; Insulin-like growth factor-binding protein 10; Protein CYR61; Protein GIG1; anti-CYR61 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	CYR61 antibody detects endogenous levels of total CYR61
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	381
Applicable Applications for anti-CYR61 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CYR61
Subcellular Location	Secreted.
Predicted Cross Reactivity	Rabbit
Similarity	Rabbit (88%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

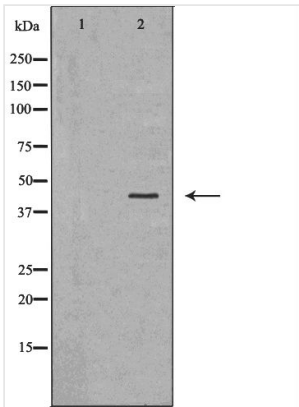


IF (Immunofluorescence)

AAA326031 staining HeLa cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/200 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

IHC (Immunohistochemistry)

AAA326031 at 1/100 staining Human uterus tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Jurkat lysate using CYR61 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-CYR61 antibody

Description: 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 α V/ β 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.

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 VEGF-A, VEGF-C, MMP1, MMP3, TIMP1, uPA, PAI-1 and integrins α -3 and α -5. CYR61-mediated gene regulation is dependent on heparin-binding. Down-regulates the expression of α -1 and α -2 subunits of collagen type-1. Promotes cell adhesion and adhesive signaling through integrin α -6/ β -1, cell migration through integrin α -v/ β -5 and cell proliferation through integrin α -v/ β -3.

Subunit Structure: Interaction with integrins is heparin- and cell-type-dependent and promotes cell adhesion. In skin fibroblasts it binds ITGA6/ITGB1, in endothelial cells, binds ITGAV/ITGB3 and in platelets, ITGA2B/ITGB3. Binds, in vitro, ITGAV/ITGB5.

Similarity: Belongs to the CCN family.

NCBI AND UNIPROT INFORMATION

NCBI GI # 31542331

NCBI GeneID	3491
NCBI Accession #	NP_001545.2
NCBI GenBank Nucleotide #	NM_001554.4
UniProt Accession #	O00622; O14934; O43775; Q9BZL7
Molecular Weight	Observed: 42 kDa Predicted: 43 kDa
NCBI Official Full Name	protein CYR61
NCBI Official Synonym Full Names	cellular communication network factor 1
NCBI Official Symbol	CCN1
NCBI Official Synonym Symbols	GIG1; CYR61; IGFBP10
NCBI Protein Information	protein CYR61
UniProt Protein Name	Protein CYR61
UniProt Gene Name	CYR61
UniProt Synonym Gene Names	CCN1; GIG1; IGFBP10; IBP-10; IGF-binding protein 10; IGFBP-10

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cyr61-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326031>