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anti-CYR61 antibody (AA 251-379)

Validation



Image



Overview

Quantity:	100 μL
Target:	CYR61
Binding Specificity:	AA 251-379
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CYR61 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human Cyr61
Isotype:	IgG
Cross-Reactivity:	Human
Predicted Reactivity:	Mouse,Rat,Dog,Cow,Sheep,Horse
Purification:	Purified by Protein A.

Target Details

Target:	CYR61
Alternative Name:	Cyr61 (CYR61 Products)
Background:	Synonyms: CCN1, GIG1, IGFBP10, Protein CYR61, CCN family member 1, Cysteine-rich

angiogenic inducer 61, Insulin-like growth factor-binding protein 10, IBP-10, IGF-binding protein	n
10, IGFBP-10, Protein GIG1, CYR61	

Background: 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. CYR61-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.

Gene ID:	3491

UniProt: 000622

Pathways: Positive Regulation of Endopeptidase Activity, Growth Factor Binding

Application Details

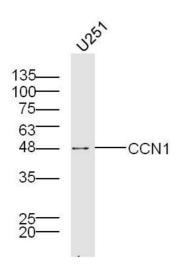
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Validation report #100003 for Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))



Western Blotting

Image 1. U251 lysates probed with Cry61 Polyclonal Antibody, Unconjugated at 1:300 overnight at 4°C. Followed by a conjugated secondary antibody at 1:5000 for 90 min at 37°C.

♦ Validation report #100003 for Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))



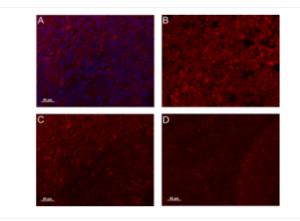
Successfully validated (Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp)))

by Memorial Sloan-Kettering Cancer Center, Parada lab

Report Number: 100003

Date: Oct 15 2015

Target:	CYR61
Method validated:	Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections) (IHC (fp))
Positive Control:	Tumor cell transplanted mouse brain was dissected
Notes:	The staining pattern was as expected for Cyr61 as a secreted protein.
Primary Antibody:	ABIN674499
Secondary Antibody:	Donkey-anti-Rabbit-Cy3
Isotype:	rabbit IgG
Protocol:	 Tumor cell transplanted mouse brain was dissected, fixed in 4% PFA for overnight, saturated in 30% sucrose, mounted in Cryo, and sectioned into 12µm sections. Immunostaining for Cryo Sections: Dry slides at 50-55°C for 15-30 min (or RT for 30min) Wash three times with PBS 5min (shake gently) Block with 10% Normal Donkey Serum (NDS) at RM for 1hour Incubate with primary antibody at 4°C overnight (Prepared in 2% NDS) Rabbit-anti-CYR61 antibody (ABIN674499) diluted 1:50-1:200 Wash three times with PBS 5min (shake gently) Incubate with secondary antibody together with DAPI at RT for 1h (Prepared in 2% NDS), cover the chamber with foil Donkey-anti-Rabbit-Cy3 DAPI 1:100 Wash three times with PBS 5min (shake gently) Add three drops of water-based Immu-mount Cover with 24x60 cover glass Imaging Images were taken using a Zeiss Axio2-Imaging system, 20X-0.5NA-Dry Dye-1004-072 objective, DAPI and Cy3 channel.
Experimental Notes:	ABIN674499 worked within the diution range 1:50 - 1:200



Validation image no. 1 for anti-Cysteine-Rich, Angiogenic Inducer, 61 (CYR61) (AA 251-379) antibody (ABIN674499)

IF validation of CYR61 antibody ABIN674499 on mouse brain tumor sections. A. ABIN674499 diluted 1:100 (red), DAPI counterstaining (blue). B. Dilution factor 1:50. C. Dilution factor 1:100. D. Dilution factor 1:200.