

Product Datasheet

Cyr61/CCN1 Antibody NB100-357

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-357

Updated 9/23/2020 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB100-357



NB100-357**Cyr61/CCN1 Antibody****Product Information**

Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	42 kDa

Product Description

Host	Rabbit
Gene ID	3491
Gene Symbol	CCN1
Species	Human, Mouse (Negative), Rat (Negative)
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Rat (100%), Mouse (96%); however we have had negative feedback with the use of this antibody in mouse and rat tissue.
Immunogen	A synthetic peptide made to the human CYR61 protein sequence (between residues 250-350). [UniProt# O00622]

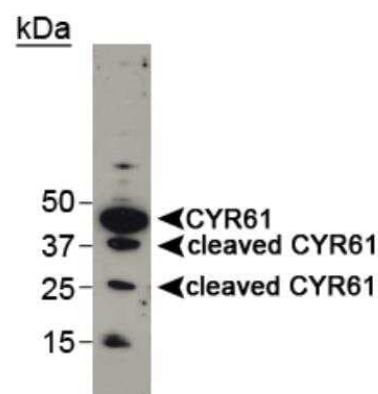
Product Application Details

Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:200, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50 - 1:100, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	<p>This CYR61 antibody is useful for Immunocytochemistry/Immunofluorescence and Western Blot, where a band can be seen at both approx. 37 kDa (processed form) and approx. 45 kDa (full-length form) of CYR61 protein.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.</p> <p>The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. Use in Immunohistochemistry-paraffin reported in scientific literature (PMID: 19698122). Use in Immunohistochemistry-Frozen reported in multiple pieces of scientific literature. Use in Immunohistochemistry reported in scientific literature (PMID: 28785028).</p>

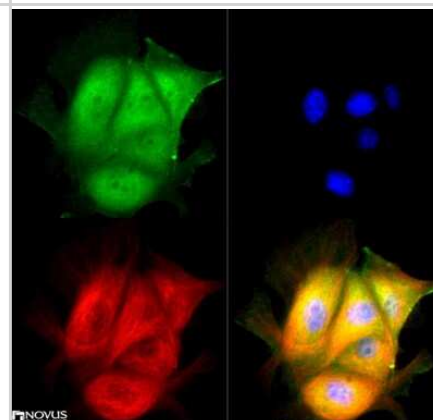


Images

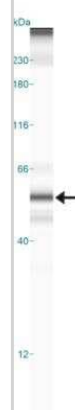
Western Blot: Cyr61/CCN1 Antibody [NB100-357] - CYR61 Antibody [NB100-357] - Detection of cleaved CYR61 in MDA-MB-231 cell lysate. Photo courtesy of Dr. Lupu's Lab, Northwestern University. Image by Dr. Ingrid Espinoza.



Immunocytochemistry/Immunofluorescence: Cyr61/CCN1 Antibody [NB100-357] - CYR61 antibody was tested in MCF-7 cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



Simple Western: Cyr61/CCN1 Antibody [NB100-357] - Simple Western lane view shows a specific band for Cyr61 in 0.2 mg/ml of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. *Non-specific interaction with the 230 kDa standard may be seen with this antibody.



Publications

Otani Y, Ishida J, Kurozumi K et al. PIK3R1Met326Ile germline mutation correlates with cysteine-rich protein 61 expression and poor prognosis in glioblastoma Sci Rep 2017-08-07 [PMID: 28785028] (IF/IHC, Human)

Kurozumi K, Hardcastle J, Thakur R et al. Oncolytic HSV-1 infection of tumors induces angiogenesis and upregulates CYR61. Mol Ther. 2008-08-01 [PMID: 18545226] (IHC-Fr, WB, Human, Rat)

Zhou ZQ, Cao WH, Xie JJ et al. Expression and prognostic significance of THBS1, Cyr61 and CTGF in esophageal squamous cell carcinoma. BMC Cancer. 2009-08-01 [PMID: 19698122] (IHC-P, WB, Human)

Vaithilingam V, Quayum N, Joglekar MV et al. Effect of alginate encapsulation on the cellular transcriptome of human islets. Biomaterials. 2011-09-01 [PMID: 21889795] (WB, Human)

Boone, S. IFITM3 as a Potential Mechanism for Cyr61 Mediated Inhibition of Oncolytic Virotherapy. Honors Theses, College of Biological Sciences, The Ohio State University. 2011-06-01 (WB, Human)

Wolf N, Yang W, Dunk CE et al. Regulation of the extracellular matrix proteins CYR61 (CCN1) and NOV (CCN3) by hypoxia-inducible factor-1{alpha} and transforming-growth factor-{beta}3 in the human trophoblast. Endocrinology. 2010-06-01 [PMID: 20237132] (IHC-Fr, Human)



Procedures

ICC/IF protocol specific for CYR61 antibody (NB100-357)

Cyr61/CCN1 Antibody:

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-
techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-357

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

