Product Datasheet

Cyr61/CCN1 Antibody
NB100-356

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

Reviews: 2  Publications: 9

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-356

Updated 7/28/2019 v.20.1
**Product Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.02% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>PBS</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>37 kDa</td>
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**Product Description**

**Host**
Rabbit

**Gene ID**
3491

**Gene Symbol**
CCN1

**Species**
Human, Mouse, Rabbit

**Reactivity Notes**
The immunogen sequence has 88% homology to rat and mouse. Rabbit reactivity reported in scientific literature (PMID: 22401280). Mouse reactivity reported in scientific literature (PMID: 27776183).

**Immunogen**
A synthetic peptide made to the human CYR61 protein sequence (between residues 150-250). [UniProt# O00622]

**Product Application Details**

**Applications**
Western Blot, Simple Western, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Block/Neutralize

**Recommended Dilutions**
Western Blot 1:200, Simple Western 1:400, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 1:100, Block/Neutralize

**Application Notes**
Immunohistochemistry was reported in scientific literature. In Western blot a band is observed at ~37 kDa, representing the processed form of CYR61 protein. IF/ICC (PMID 18202125), Blocking/Neutralizing (PMID 22282654).

In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. 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.
Western Blot: Cyr61/CCN1 Antibody [NB100-356] - Total protein from Human liver, spleen and HepG2 cells was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/mL anti-CYR61 in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence. Note the low expression level of CYR61 in HepG2 cells.

Immunocytochemistry/Immunofluorescence: Cyr61/CCN1 Antibody [NB100-356] - MCF7 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-Cyr61/CCN1 (NB100-356) at 1:200 overnight at 4C and detected with an anti-rabbit DyLight 488 (Green) at 1:500. Alpha tubulin was used as a co-stain at 1:1000 and detected with an anti-mouse DyLight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.

Immunohistochemistry: Cyr61/CCN1 Antibody [NB100-356] - Human endometrium. Photo courtesy of Dr. rer. nat. Isabella Gashaw, University Duisburg-Essen.

Western Blot: Cyr61/CCN1 Antibody [NB100-356] - Detection of cleaved CYR61 in MDA-MB-231 cell lysate using NB 100-356. Photo courtesy of Dr. Lupu’s Lab, Northwestern University. Image by Dr. Ingrid Espinoza.
Immunohistochemistry: Cyr61/CCN1 Antibody [NB100-356] - Human endometrium. Photo courtesy of Dr. rer. nat. Isabella Gashaw, University Duisburg-Essen.

Simple Western: Cyr61/CCN1 Antibody [NB100-356] - Image shows a specific band for CYR61 in 0.5 mg/mL of MCF-7 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.

Publications

Hellinger JW, HUchel S, Goetz L et al. Inhibition of CYR61-S100A4 Axis Limits Breast Cancer Invasion Front Oncol Oct 23 2019 12:00AM [PMID: 31709177] (Human)

Details:
The DyLight 550 conjugated version of this antibody was used, NB100-356R.

Park MH, Kim AK, Manandhar S et al. CCN1 interlinks integrin and Hippo pathway to autoregulate tip cell activity Elife Aug 20 2019 12:00AM [PMID: 31429823] (B/N)


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

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