

# Product Datasheet

## RCAN1 Antibody - BSA Free

### NBP1-46852

Unit Size: 0.1 ml

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

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**NBP1-46852**

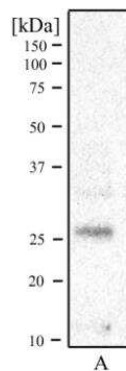
RCAN1 Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS and 30% Glycerol
<b>Target Molecular Weight</b>	38 kDa
Product Description	
<b>Description</b>	Novus Biologicals Rabbit RCAN1 Antibody - BSA Free (NBP1-46852) is a polyclonal antibody validated for use in IHC and WB. Anti-RCAN1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	1827
<b>Gene Symbol</b>	RCAN1
<b>Species</b>	Human, Mouse
<b>Specificity/Sensitivity</b>	This antibody is specific for isoform 1-1L.
<b>Immunogen</b>	Synthetic peptide made to an internal portion of human RCAN1 (within residues 40-90). [Swiss-Prot# P53805]
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 2 ug/ml, Immunohistochemistry 1:1000, Immunohistochemistry-Paraffin 1:1000
<b>Application Notes</b>	This RCAN1 antibody is useful for Western blot and Immunohistochemistry on paraffin-embedded sections. In WB a band is seen at ~38 kDa representing isoform RCAN1-1L. 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.

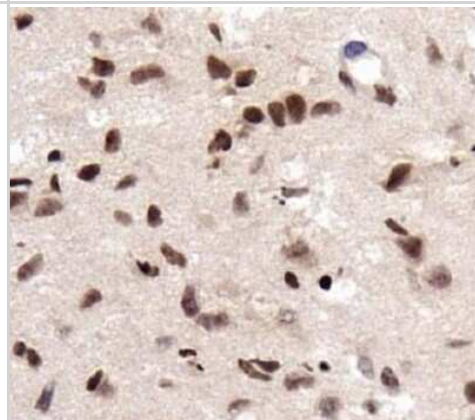


## Images

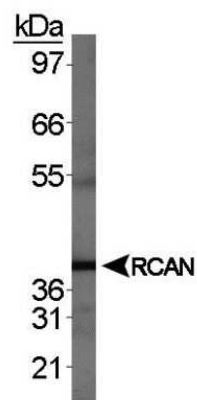
Western Blot: RCAN1 Antibody [NBP1-46852] - Western blot analysis of human skeletal muscle tissue (A) using RCAN1 antibody at 2 ug/ml.



Immunohistochemistry: RCAN1 Antibody [NBP1-46852] - Immunohistochemical analysis of RCAN1 in human fetal brain.



Western Blot: RCAN1 Antibody [NBP1-46852] - Analysis of RCAN1 in human fetal brain.



## Publications

Lloret A, Monllor P, Fuchsberger T et al. Increased basal antioxidant levels in RCAN1 - deficient mice lowers oxidative injury after acute paraquat insult Free Radic. Res. 2020-07-19 [PMID: 32686528]

## Procedures

### Protocol specific for RCAN1 Antibody (NBP1-44999)

RCAN1 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH<sub>2</sub>O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFD<sub>M</sub> + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-RCAN1 primary antibody (NBP1-44999) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH<sub>2</sub>O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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### **Products Related to NBP1-46852**

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NB820-59253	Human Skeletal Muscle Whole Tissue Lysate (Adult Whole Normal)
NBP1-46852PEP	RCAN1 Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **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.

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