

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

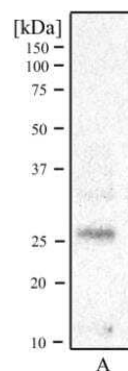
RCAN1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	38 kDa
Product Description	
Host	Rabbit
Gene ID	1827
Gene Symbol	RCAN1
Species	Human, Mouse
Specificity/Sensitivity	This antibody is specific for isoform 1-1L.
Immunogen	Synthetic peptide made to an internal portion of human RCAN1 (within residues 40-90). [Swiss-Prot# P53805]
Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, Immunohistochemistry 1:1000, Immunohistochemistry-Paraffin 1:1000
Application Notes	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

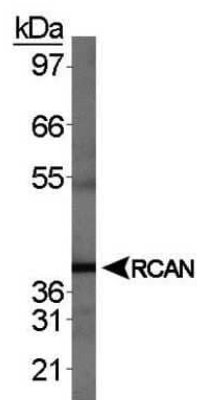
Western Blot: RCAN1 Antibody [NBP1-46852] - Western blot analysis of human skeletal muscle tissue (A) using RCAN1 antibody at 2 ug/ml.



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 dH₂O 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_M + 1% BSA in TBS + Tween, 1 hour at RT.
 6. Rinse the membrane in dH₂O 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 dH₂O 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

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

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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