Product Datasheet

SREBP1 Antibody
NB100-60545SS

Unit Size: 0.025 ml

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

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Publications: 6

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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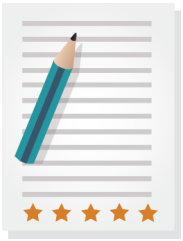
Updated 10/27/2020 v.20.1



NB100-60545SS

SREBP1 Antibody

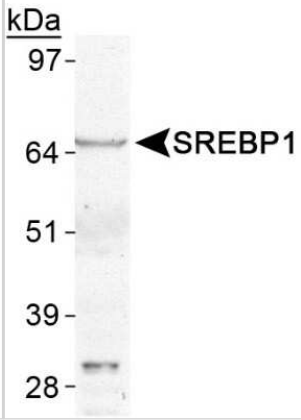
Product Information	
Unit Size	0.025 ml
Concentration	1.1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Glycine, 0.15 M NaCl
Target Molecular Weight	65 kDa

Product Description	
Host	Rabbit
Gene ID	6720
Gene Symbol	SREBF1
Species	Human, Mouse, Rat, Hamster
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: porcine (89%).
Immunogen	A synthetic peptide made to a portion of the human SREBP1 protein sequence (between residues 700-800). [Uniprot: P36956]
Notes	Unprocessed SREBP1 is an ~122 kDa integral membrane protein that moves from ER to golgi for processing. The first cleavage is performed by S2P at residue 490, and the resulting active portion is then translocated out of the golgi. This is the ~65 kDa mature form that is detected by NB100-2215. The second cleavage is performed by S1P at residue 530, and the resulting C-term portion (from residues 530-1147) remains in the golgi where it is detected as a ~65 kDa protein by NB100-60545.

Product Application Details	
Applications	Western Blot
Recommended Dilutions	Western Blot 2 ug/mL
Application Notes	This SREBP1 antibody is useful for Western blot, where a band is seen at ~65 kDa (mature form).

Images

Western Blot: SREBP1 Antibody [NB100-60545] - Detection of SREBP1 in human liver (40 ug) using NB100-60545.



Publications

Ding Y, Xu X, Meng B et al. Myeloid-derived growth factor alleviates non-alcoholic fatty liver disease alleviates in a manner involving IKK?/NF-?B signaling Cell death & disease 2023-06-26 [PMID: 37365185] (WB, Mouse)

Details:
1:1000 dilution

Rana, R, Shearer, A M Et al. PAR2 controls cholesterol homeostasis and lipid metabolism in nonalcoholic fatty liver disease. Mol Metab 2019-11-01 [PMID: 31668396] (ICC/IF, Drosophila melanogaster)

McMurphy TB, Huang W, Xiao R et al. Hepatic Expression of Adenovirus 36 E4ORF1 Improves Glycemic Control and Promotes Glucose Metabolism Through AKT Activation Diabetes. 2016-11-29 [PMID: 27903748] (WB, Mouse)

Pathak, P;Chiang, JYL; Sterol 12 alpha-hydroxylase Aggravates Dyslipidemia by Activating the Ceramide/mTORC1/SREBP1C Pathway via FGF21 and FGF15 Gene Expr. 2019-03-19 [PMID: 30890204] (WB, Mouse)

McMurphy T, Huang W, Queen NJ et al. Implementation of environmental enrichment after middle age promotes healthy aging Aging (Albany NY) 2018-07-20 [PMID: 30036185] (WB, Mouse)

McMurphy TB. Environmental and gene therapy approaches to improve glycemic control and promote healthy aging. Thesis. 2017-10-26 (WB, Mouse)

Procedures

Western Blot protocol for SREBP1 Antibody (NB100-60545)
SREBP1 Antibody:
Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 4035 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% non-fat dry milk + 1% BSA in TBS for 1 hour at room temperature (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-SREBP1 primary antibody (NB100-60545) in blocking buffer and incubate 1 hour at RT.
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 (we used Pierce Pico ECL).

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

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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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