

Product Datasheet

SIRT6 Antibody - BSA Free

NB100-2523

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-2523

SIRT6 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
Target Molecular Weight	39 kDa

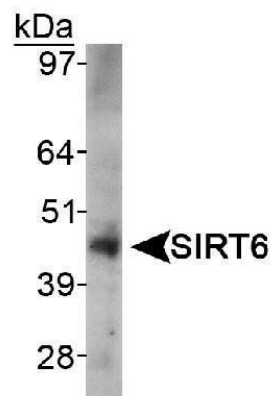
Product Description	
Description	Novus Biologicals Rabbit SIRT6 Antibody - BSA Free (NB100-2523) is a polyclonal antibody validated for use in WB and Simple Western. Anti-SIRT6 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	51548
Gene Symbol	SIRT6
Species	Human
Immunogen	A synthetic peptide made to an internal region of the human SIRT6 protein (within residues 250-350). [Swiss-Prot Q8N6T7]

Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 0.5-2 ug/ml, Simple Western 1:10
Application Notes	<p>This SIRT6 antibody is useful for Western blot analysis, where a band is seen at approx. 39 kDa. A higher MW band approx. 59 kDa may be seen with lower dilutions (ie: 2 ug/ml). This antibody is not applicable for Immunocytochemistry / Immunofluorescence.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:10, apparent MW was 49 kDa. 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.</p>



Images

Western Blot: SIRT6 Antibody [NB100-2523] - Detection of SIRT6 in HeLa whole cell lysate.



Simple Western: SIRT6 Antibody [NB100-2523] - Simple Western lane view shows a specific band for SIRT6 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Publications

Koczor CA, Saville KM, Andrews JF Et al. Temporal dynamics of base excision/single-strand break repair protein complex assembly/disassembly are modulated by the PARP/NAD⁺/SIRT6 axis Cell reports 2021-11-02 [PMID: 34731617] (WB, Human)

Procedures

Western Blot protocol for SIRT6 Antibody (NB100-2523)

SIRT6 Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (4-12%, Bis-Tris) on samples to be analyzed, loading 30 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, overnight at 4 degrees Celsius.
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-SIRT6 primary antibody (NB 100-2523) 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 manufacturer's 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 manufacturer's instructions (Pierce's 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 NB100-2523

NB800-PC1	HeLa Whole Cell Lysate
NB100-2523PEP	SIRT6 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

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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