

# Product Datasheet

## SIRT7 Antibody NB110-81762

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 1

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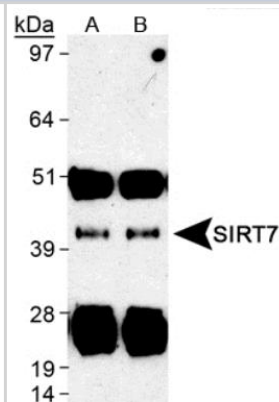


**NB110-81762****SIRT7 Antibody**

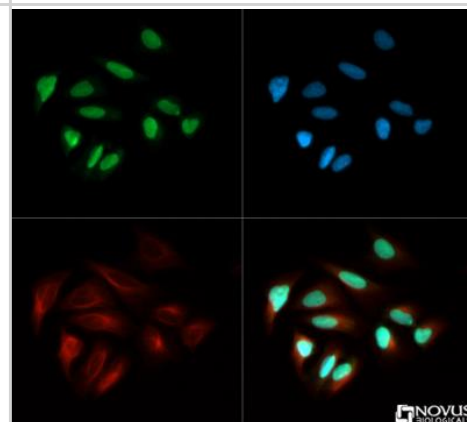
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.1% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris-Citrate/Phosphate (pH 7.0 - 8.0)
<b>Target Molecular Weight</b>	42 kDa
<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	51547
<b>Gene Symbol</b>	SIRT7
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic peptide made to an internal portion of human SIRT7 (within residues 50-150). [Swiss-Prot# Q9NRC8]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunocytochemistry/Immunofluorescence, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot, Immunocytochemistry/Immunofluorescence 1:20 - 1:100, Immunoprecipitation 20 ug/ml
<b>Application Notes</b>	This SIRT7 antibody is useful for Immunocytochemistry/Immunofluorescence and Immunoprecipitation. For Western blot, catalog numbers NB110-81744 or NB110-81746 are suggested. In ICC/IF nuclear staining was observed. 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: SIRT7 Antibody [NB110-81762] - SIRT7  
Immunoprecipitated from human liver lysates with NB110-81762. A). NB110-81746 B). NB110-81744



Immunocytochemistry/Immunofluorescence: SIRT7 Antibody [NB110-81762] - SIRT7 antibody was tested in U2OS cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).



## Publications

Zhang PY, Li G, Deng ZJ et al. Dicer interacts with SIRT7 and regulates H3K18 deacetylation in response to DNA damaging agents. Nucleic Acids Res 2016 May 5 [PMID: 26704979] (WB)

## Procedures

### **Immunocytochemistry/Immunofluorescence protocol for SIRT7 Antibody (NB110-81762)**

SIRT7 Antibody: [https://www.novusbio.com/products/sirt7-antibody\\_nb110-81762](https://www.novusbio.com/products/sirt7-antibody_nb110-81762)

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

\*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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### **Products Related to NB110-81762**

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NB820-59232	Human Liver Whole Tissue Lysate (Adult Whole Normal)
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB7156	Goat anti-Rabbit IgG (H+L) Secondary Antibody
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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