

# Product Datasheet

## NSP 5 alpha 3 alpha Antibody - BSA Free NB100-517

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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**NB100-517**

NSP 5 alpha 3 alpha Antibody - BSA Free

**Product Information**

<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>	80 kDa

**Product Description**

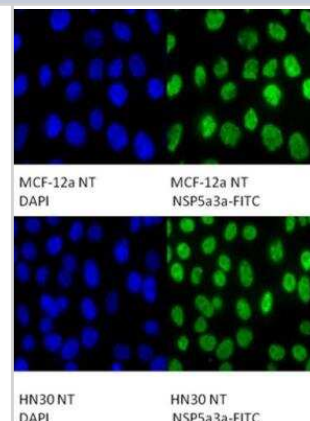
<b>Host</b>	Rabbit
<b>Gene ID</b>	92521
<b>Gene Symbol</b>	SPECC1
<b>Species</b>	Human
<b>Reactivity Notes</b>	Immunogen displays the following percentage of sequence identity for non-tested species: mouse (83%), rat (83%).
<b>Immunogen</b>	An internal synthetic peptide made to the human NSP 5 alpha 3 alpha protein sequence (between residues 1-100). [UniProt# Q5M775]

**Product Application Details**

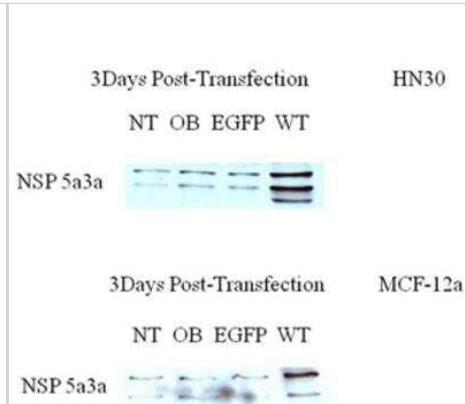
<b>Applications</b>	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:500-1:2000, Immunocytochemistry/ Immunofluorescence 1:250, Immunoprecipitation
<b>Application Notes</b>	In Western blot, a band is seen at ~80 kDa. A second band may be seen at ~60 kDa. The specificity of this band is not known.

**Images**

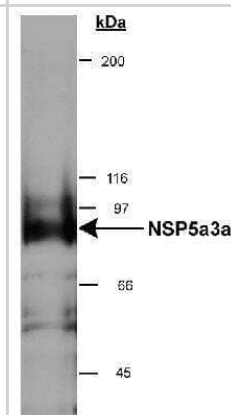
Immunocytochemistry/Immunofluorescence: NSP 5 alpha 3 alpha Antibody [NB100-517] - Immunostaining of HN30 and MCF-12a cells. MCF-12a NT (DAPI): non-treated MCF-12a DAPI stained, MCF-12a NT (NSP 5a3a-FITC): non-treated MCF-12a FITC stained for NSP 5a3a, MCF-12a pNSP 5a3a (DAPI): HN30 NT (DAPI): non-treated HN30 DAPI stained, HN30 NT (NSP 5a3a-FITC): non-treated HN30 FITC stained for NSP 5a3a, HN30 pNSP 5a3a (DAPI): White arrows indicate apoptotic bodies. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/article/306/text/>) licensed under a CC-BY license.



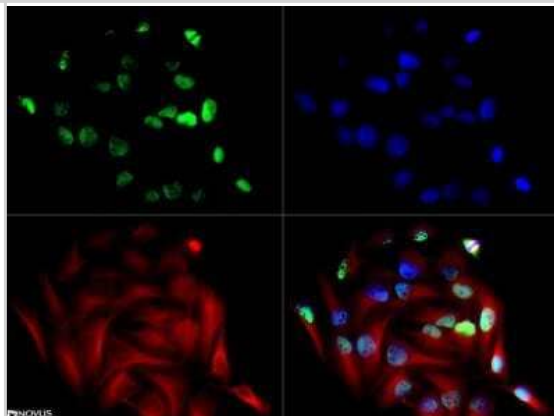
Western Blot: NSP 5 alpha 3 alpha Antibody [NB100-517] - Western Blot analysis of total lysates from asynchronous HN30 cells and MCF-12a 3 days post-transfection. NT: non-treated, OB: only buffer, EGFP: only pcDNA3.1/CT-GFP vector, NSP 5a3a/EGFP: pcDNA 3.1/CT-GFP and pcDNA 3.0 NSP 5a3a. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/article/306/text/>) licensed under a CC-BY license.



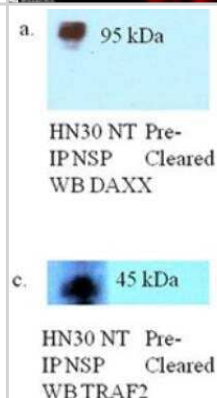
Western Blot: NSP 5 alpha 3 alpha Antibody [NB100-517] - Detection of NSP 5 alpha 3 alpha in HeLa whole cell lysate (RIPA) using NB100-517. 0.5ug/ml dilution, 15 second ECL detection.



Immunocytochemistry/Immunofluorescence: NSP 5 alpha 3 alpha Antibody [NB100-517] - The NSP 5 alpha 3 antibody was tested in Hela cells at a 1:250 dilution against Dylight 488 (Green). Alpha tubulin and nuclei were counterstained with Dylight 550 (Red) and DAPI (Blue), respectively.



Immunoprecipitation: NSP 5 alpha 3 alpha Antibody [NB100-517] - Western blot analysis of co-immunoprecipitations of asynchronous HN30 non-treated. NT: non-treated HN30 cells, a. Immunoprecipitation of non-treated HN30 cells using rabbit anti-NSP 5a3a and western blot analysis using rabbit anti-DAXX., c. Immunoprecipitation of non-treated HN30 cells using rabbit anti-NSP 5a3a and western blot analysis using rabbit anti-TRAF2. Image collected and cropped by CiteAb from the following publication (<https://www.oncotarget.com/article/306/text/>) licensed under a CC-BY license.



Western Blot: NSP 5 alpha 3 alpha Antibody [NB100-517] - Western blot analysis of co-immunoprecipitations of asynchronous HN30 non-treated & HN30 cells transfected with pcDNA 3.0 NSP 5a3a & pcDNA 3.1/CT-GFP for 3 days NT: non-treated HN30 cells, TRD: HN30 cells over-expressing NSP 5a3a. a. Immunoprecipitation of non-treated HN30 cells using rabbit anti-NSP 5a3a & western blot analysis using rabbit anti-DAXX., b. Immunoprecipitation of HN30 treated cells using rabbit anti-NSP 5a3a & western blot analysis using rabbit anti-DAXX., c. Immunoprecipitation of non-treated HN30 cells using rabbit anti-NSP 5a3a & western blot analysis using rabbit anti-TRAF2., d. Immunoprecipitation of HN30 treated cells using rabbit anti-NSP 5a3a & western blot analysis using rabbit anti-TRAF2., e. Immunoprecipitation of non-treated HN30 cells using rabbit anti-TRAF2/DAXX & western blot analysis using rabbit anti-NSP 5a3a, & f. Immunoprecipitation of HN30 treated cells using rabbit anti-TRAF2/DAXX & western blot analysis using rabbit anti-NSP 5a3a. Image collected & cropped by CiteAb from the following publication (<https://www.oncotarget.com/lookup/doi/10.18632/oncotarget.306>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

D'Agostino L, Giordano A. A novel dual signaling axis for NSP 5a3a induced apoptosis in head and neck carcinoma Oncotarget 2011-12-01 [PMID: 22170762] (IP, WB, ICC/IF, Human)

D'agostino L, Giordano A. NSP 5a3a: A Potential Novel Cancer Target in Head and Neck Carcinoma. Oncotarget;1 (6):422-35. 2010-10-01 [PMID: 21311098] (WB, Human)

## Procedures

### Western Blot protocol for NSP 5 alpha 3 alpha Antibody (NB100-517)

NSP 5 alpha 3 alpha Antibody:

Western Blot Protocol

1. Perform SDS-PAGE (3-8%) on samples to be analyzed, loading 30ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. 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 in TBS for 1 hour.
6. Dilute the rabbit anti-NSP5a3a primary antibody (NB 100-517) in blocking buffer and incubate overnight at 4 degrees Celsius.
7. Wash the membrane in water for 5 minutes and apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking 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 NB100-517**

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NB800-PC1	HeLa Whole Cell Lysate
NB100-517PEP	NSP 5 alpha 3 alpha 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

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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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