Product Datasheet

Nbs1 Antibody (7E4A2) - BSA Free
NBP2-26297

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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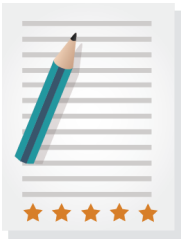
Updated 4/13/2025 v.20.1



NBP2-26297

Nbs1 Antibody (7E4A2) - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	7E4A2
Preservative	0.05% Sodium Azide
Isotype	IgG2 Alpha
Purity	Ammonium sulfate precipitation
Buffer	PBS, 0.5% protein stabilizer
Target Molecular Weight	85 kDa

Product Description

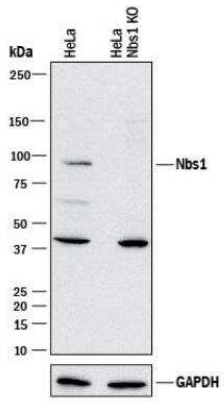
Host	Mouse
Gene ID	4683
Gene Symbol	NBN
Species	Human
Immunogen	Nbs1 Antibody (7E4A2) was made to partial recombinant human NBS1 (between residues 400-650) expressed in E. coli [Uniprot O60934]

Product Application Details

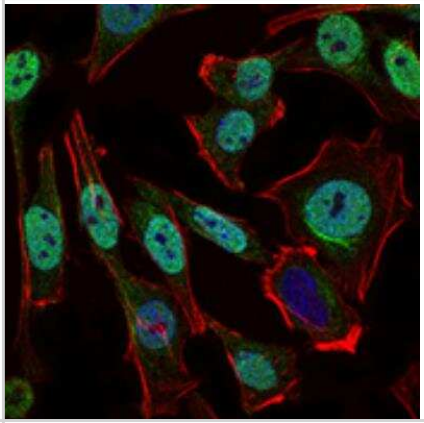
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockout Validated
Recommended Dilutions	Western Blot 1:500 - 1:2000, Simple Western 1:50, Flow Cytometry 1:200 - 1:400, ELISA, Immunohistochemistry 1:200 - 1:1000, Immunocytochemistry/ Immunofluorescence 1-50 - 1:100, Immunohistochemistry-Paraffin, Knockout Validated
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HepG2 lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50, apparent MW was 71 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

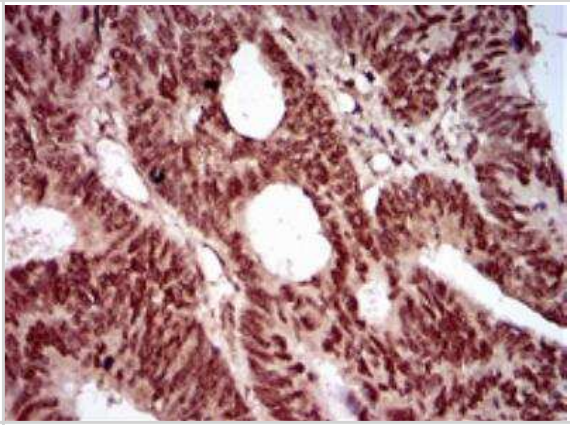
Western Blot: Nbs1 Antibody (7E4A2) [NBP2-26297] - Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and Nbs1 knockout (KO) HeLa cell line. PVDF membrane was probed with 1:1000 of Mouse Anti-Human Polyclonal Nbs1 Antibody [NBP2-26297] followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody [HAF018]. Specific band was detected for Nbs1 at approximately 95 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



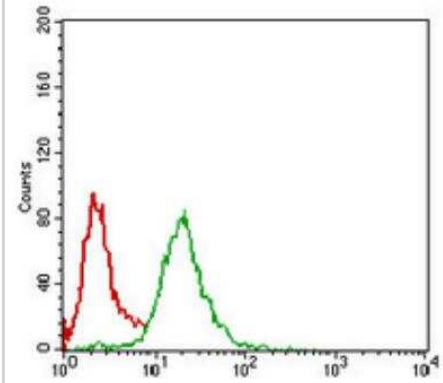
Immunocytochemistry/Immunofluorescence: Nbs1 Antibody (7E4A2) [NBP2-26297] - Analysis of Hela cells using mouse Nbs1 Antibody (7E4A2) [NBP2-26297] (green). Blue: DRAQ5 fluorescent DNA dye [NBP2-81125]. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



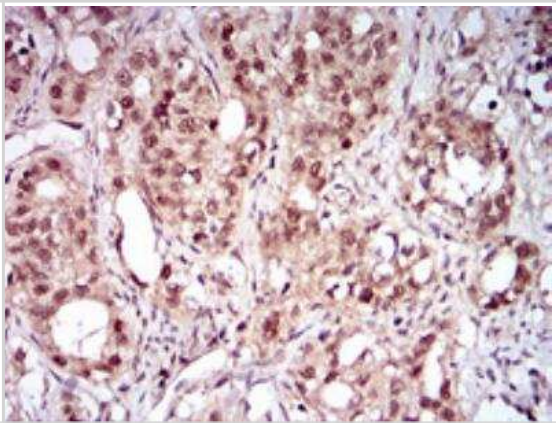
Immunohistochemistry: Nbs1 Antibody (7E4A2) [NBP2-26297] - Analysis of paraffin-embedded rectum cancer tissues using mouse Nbs1 Antibody (7E4A2) [NBP2-26297] with DAB staining.

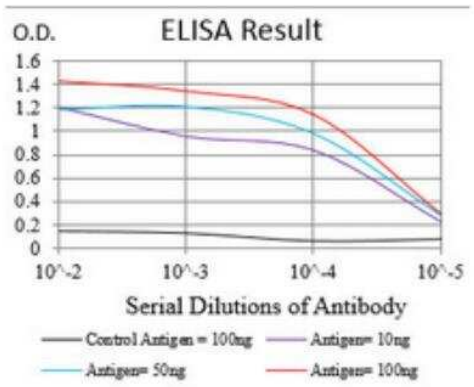


Flow Cytometry: Nbs1 Antibody (7E4A2) [NBP2-26297] - Analysis of Nbs1 in Hela cells using mouse Nbs1 Antibody (7E4A2) [NBP2-26297] (green) and negative control (red).



Immunohistochemistry-Paraffin: Nbs1 Antibody (7E4A2) [NBP2-26297] - Analysis of Nbs1 in paraffin-embedded cervical cancer tissues using mouse Nbs1 Antibody (7E4A2) [NBP2-26297] with DAB staining.



ELISA: Nbs1 Antibody (7E4A2) [NBP2-26297] - ELISA analysis using Nbs1 Antibody (7E4A2) [NBP2-26297].	
Simple Western: Nbs1 Antibody (7E4A2) [NBP2-26297] - Analysis using Nbs1 Antibody (7E4A2) [NBP2-26297]. Molecular Weight observed at: 115 kDa.	

Procedures

Western Blot protocol for Nbs1 Antibody (NBP2-26297)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute anti-NBS1 primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted 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 three 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.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunocytochemistry/Immunofluorescence protocol for Nbs1 Antibody (NBP2-26297)

Immunocytochemistry Protocol

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 1:25,0000 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 NBP2-26297

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-06705PEP	Nbs1 Antibody Blocking Peptide
NBP1-06609PEP	Nbs1 Antibody Blocking Peptide

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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