

# Product Datasheet

## Histone H3 Antibody (JE46-51) - K27M mutant NBP3-32401

Unit Size: 100 ul

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

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**NBP3-32401**

Histone H3 Antibody (JE46-51) - K27M mutant

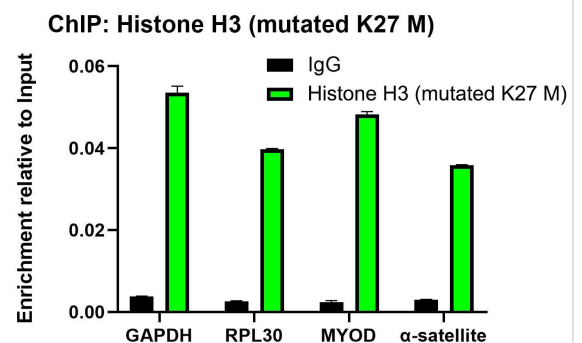
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	JE46-51
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
Target Molecular Weight	15 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3 Antibody (JE46-51) - K27M mutant (NBP3-32401) is a recombinant monoclonal antibody validated for use in IHC, WB, Flow and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	126961
Gene Symbol	H3C14
Species	Human, Mouse
Immunogen	Synthetic peptide. (Uniprot: P68431)

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000-1:5000, Flow Cytometry 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:1000, Immunohistochemistry-Paraffin 1:1000

**Images**

Chromatin Immunoprecipitation: Histone H3 Antibody (JE46-51) - K27M mutant [NBP3-32401] - Chromatin immunoprecipitations were performed with cross-linked chromatin from HeLa cells and either Histone H3 (NBP3-32401) or Normal Rabbit IgG according to the ChIP protocol. The enriched DNA was quantified by real-time PCR using indicated primers. The amount of immunoprecipitated DNA in each sample is represented as signal relative to the total amount of input chromatin, which is equivalent to one.



Western Blot: Histone H3 Antibody (JE46-51) - K27M mutant [NBP3-32401] - Western blot analysis of Histone H3 on different lysates with Rabbit anti-Histone H3 antibody (NBP3-32401) at 1/1,000 dilution.

Lane 1: 293T-OE-Histone H3 (mutated K27 M) cell lysate  
Lane 2: 293T-OE-Histone H3 cell lysate (negative)

Lysates/proteins at 10 ug/Lane.

Predicted band size: 15 kDa  
Observed band size: 18 kDa

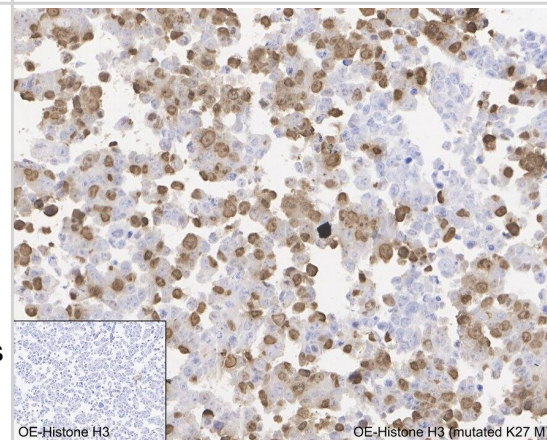
Exposure time: 2 seconds; ECL;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (NBP3-32401) at 1/1,000 dilution was used in 5% NFDN/TBST at 4 overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1/50,000 dilution was used for 1 hour at room temperature.

Immunohistochemistry: Histone H3 Antibody (JE46-51) - K27M mutant [NBP3-32401] - Immunohistochemical analysis of paraffin-embedded 293T cells transfected with Histone H3 / Histone H3 K27M mutant with Rabbit anti-Histone H3 antibody (NBP3-32401) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32401) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence: Histone H3 Antibody (JE46-51) - K27M mutant [NBP3-32401] - Immunocytochemistry analysis of HeLa cells transfected with Histone H3 / Histone H3 labeling Histone H3 (K27M mutant) with Rabbit anti-Histone H3 antibody (NBP3-32401) at 1/1,000 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Histone H3 antibody (NBP3-32401) at 1/1,000 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.





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### **Products Related to NBP3-32401**

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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

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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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