

# Product Datasheet

## Histone H3 [Trimethyl Lys27] Antibody NBP2-16840

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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**NBP2-16840****Histone H3 [Trimethyl Lys27] Antibody**

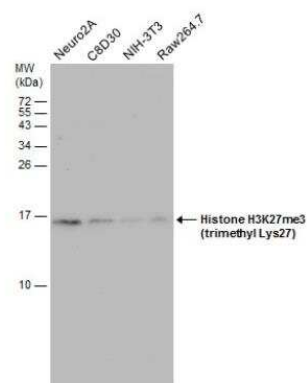
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.025% Proclin 300
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS (pH 7), 20% Glycerol, 1% BSA
<b>Target Molecular Weight</b>	15 kDa

Product Description	
<b>Host</b>	Rabbit
<b>Gene ID</b>	126961
<b>Gene Symbol</b>	H3C14
<b>Species</b>	Human, Mouse, Rat, Zebrafish
<b>Immunogen</b>	Carrier-protein conjugated synthetic peptide surrounding tri-methyl Lys27 of human Histone H3. The exact sequence is proprietary.

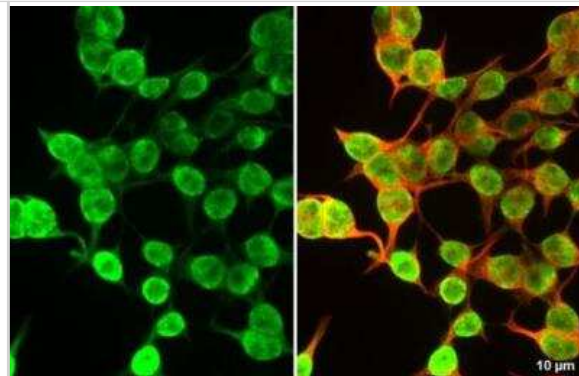
Product Application Details	
<b>Applications</b>	Western Blot, Dot Blot, Electron Microscopy, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP), Immunohistochemistry Whole-Mount
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:100-1:1000, Dot Blot 1:100 - 1:2000, Electron Microscopy 1:10 - 1:500, Immunohistochemistry Whole-Mount 1:100-1:500, Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID: 30143902)

**Images**

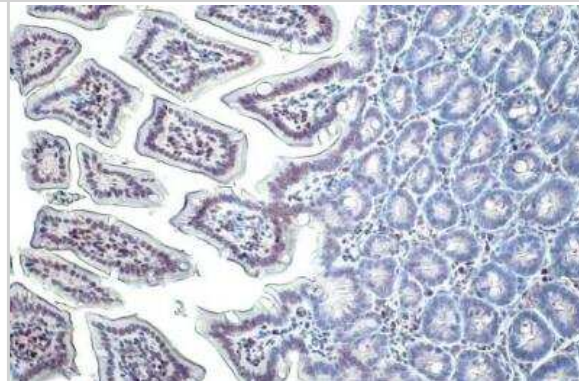
Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3K27me3 (trimethyl Lys27) antibody diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody. Observed molecular weight is ~15 kDa.



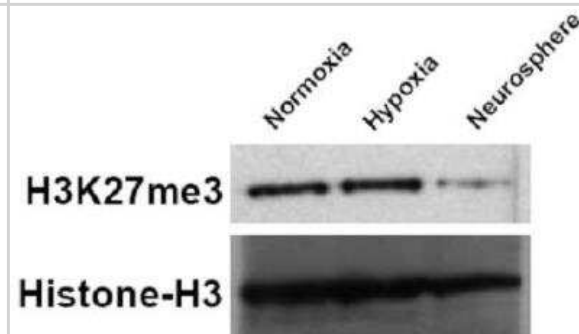
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - 293T cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: Histone H3K27me3 (Tri-methyl Lys27) stained by Histone H3K27me3 (Tri-methyl Lys27) antibody diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [114] diluted at 1:1000.



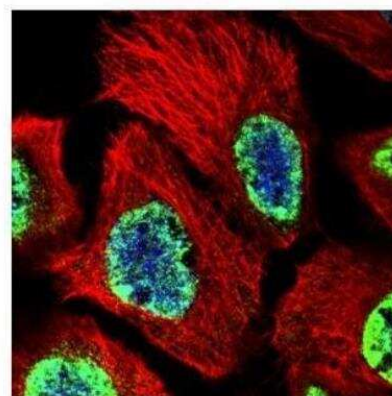
Immunohistochemistry-Paraffin: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Mouse intestine. Histone H3K27me3 (Tri-methyl Lys27) stained by Histone H3K27me3 (Tri-methyl Lys27) antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



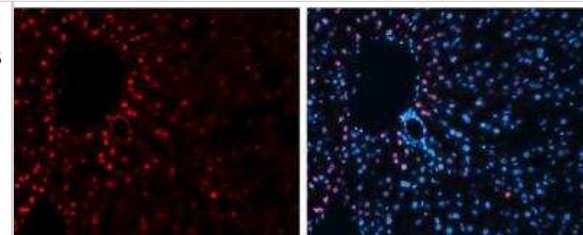
Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Histone H3 [Trimethyl Lys27] Antibody U87 cells were grown under normoxic (DMEM 10% FBS, 16% O<sub>2</sub>), hypoxic (DMEM 10% FBS, 1% O<sub>2</sub>), and neurosphere conditions (DMEM/F12, B-27 supplement, growth factor (10ng/ml FGF and 20ng/ml EGF)). Cell lysate were Western blotted for H3K27me3 and Histone-H3 (loading control).



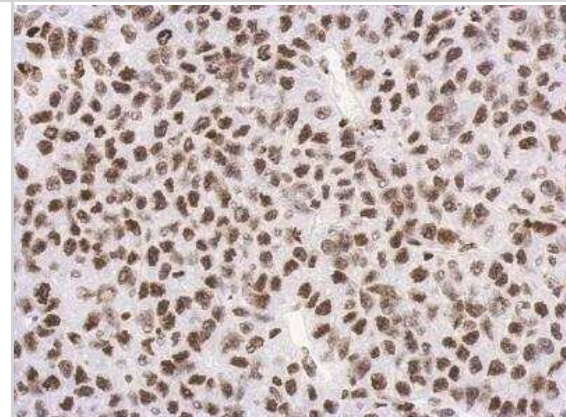
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Histone H3 [Trimethyl Lys27] Antibody Confocal immunofluorescence analysis of paraformaldehyde-fixed A431, using HIST1H3A (tri-Methyl K27) antibody (Green) at 1:500 dilution. Alpha-tubulin filaments are labeled with Alpha-tubulin antibody (Red) at 1:2000.



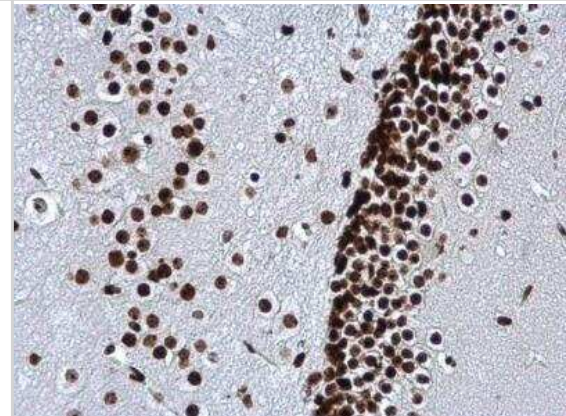
Immunocytochemistry/Immunofluorescence: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Immunofluorescence photomicrographs of frozen sections of mouse liver. Red: Histone H3K27me3 (trimethyl Lys27) antibody diluted at 1:200. The signal was developed using goat anti-rabbit IgG antibody Blue: Nuclear staining with Hoechst 33342.



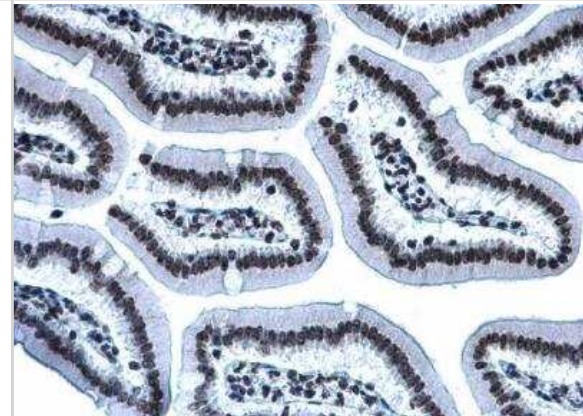
Immunohistochemistry-Paraffin: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Hela xenograft, using Histone H3 (tri-Methyl K27) antibody at 1:500 dilution. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



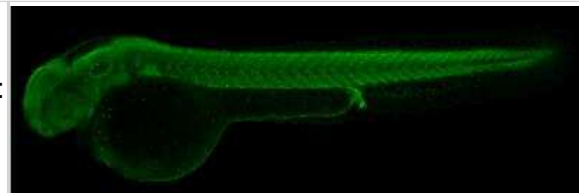
Immunohistochemistry-Paraffin: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Mouse brain. Histone H3K27me3 (trimethyl Lys27) antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



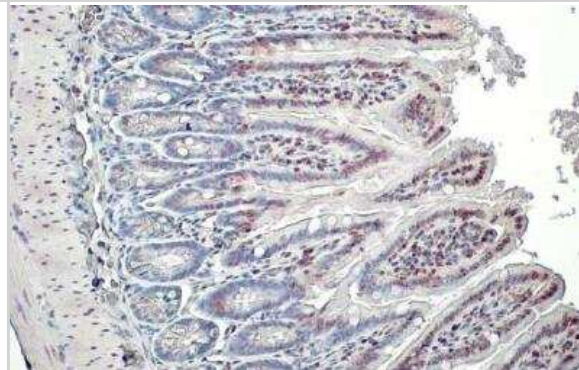
Immunohistochemistry-Paraffin: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Mouse duodenum. Histone H3K27me3 (trimethyl Lys27) antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



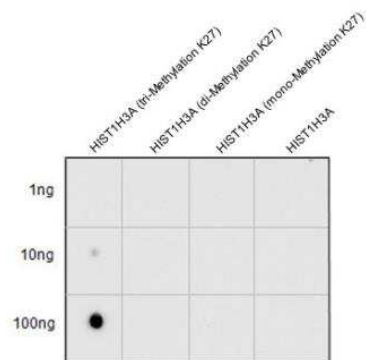
Immunohistochemistry Whole-Mount: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Paraformaldehyde-fixed 2 day-post-fertilization zebrafish embryo. Histone H3K27me3 (trimethyl Lys27) antibody dilution: 1:100.



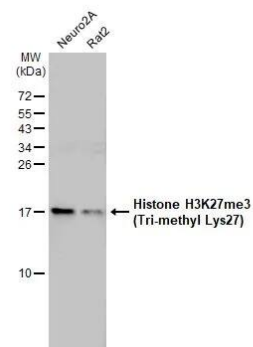
Immunohistochemistry-Paraffin: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Mouse intestine. Histone H3K27me3 (Tri-methyl Lys27) stained by Histone H3K27me3 (Tri-methyl Lys27) antibody diluted at 1:500. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min.



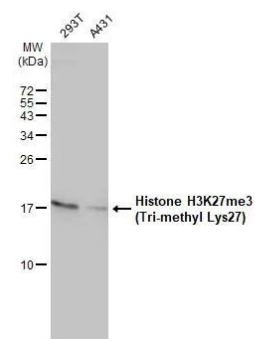
Dot Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Various peptide samples were spotted onto positively charged nylon membrane, and blotted with Histone H3 (tri-Methyl Lys27) antibody diluted at 1:2500.



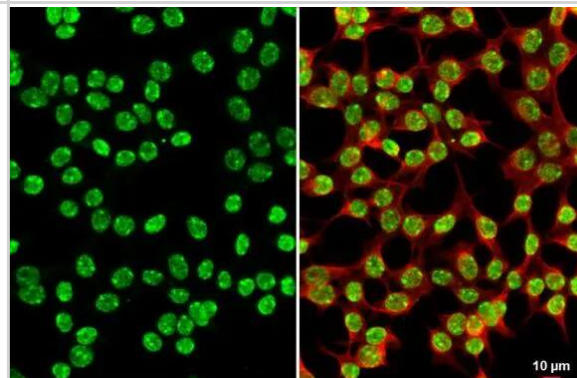
Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (NBP2-16840) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



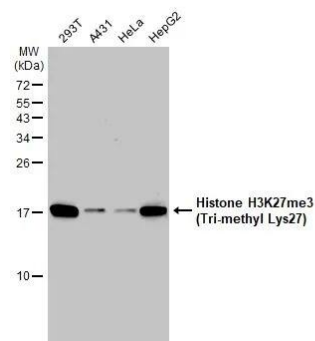
Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (NBP2-16840) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Immunocytochemistry/ Immunofluorescence: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Histone H3 antibody detects Histone H3 protein at nucleus by immunofluorescent analysis.  
Sample: 293T cells were fixed in 4% paraformaldehyde at RT for 15 min.  
Green: Histone H3 stained by Histone H3 antibody (NBP2-16840) diluted at 1:500.  
Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000.



Western Blot: Histone H3 [Trimethyl Lys27] Antibody [NBP2-16840] - Various whole cell extracts (30 ug) were separated by 15% SDS-PAGE, and the membrane was blotted with Histone H3 antibody (NBP2-16840) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



## Publications

Shen Y, Zhao H, Zhang L Et Al. The roles of DNA methylation and hydroxymethylation at short interspersed nuclear elements in the hypothalamic arcuate nucleus during puberty *Molecular Therapy - Nucleic Acids* 2021-07-01 [PMID: 34513307] (Chemotaxis)

Aroni MAT, de Oliveira GJPL, Spolidorio LC et al. Loading deproteinized bovine bone with strontium enhances bone regeneration in rat calvarial critical size defects *Clin Oral Investig* 2018-08-25 [PMID: 30143902] (Chemotaxis, Mouse)



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General: novus@novusbio.com

### **Products Related to NBP2-16840**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NB21-1001PEP	Histone H3 [Monomethyl Arg2] Antibody Blocking Peptide

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### **Limitations**

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