

# Product Datasheet

## KMT1A/SUV39H1 Antibody

### NBP1-21367

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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**NBP1-21367****KMT1A/SUV39H1 Antibody**

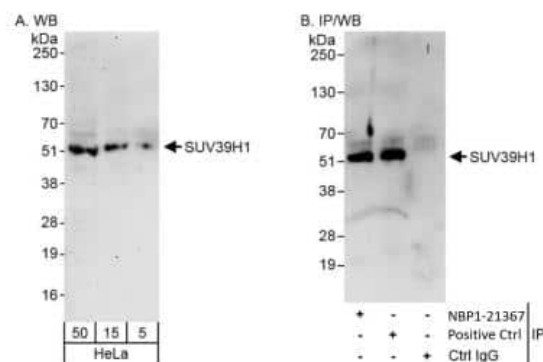
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	0.2 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	TBS and 0.1% BSA

<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit KMT1A/SUV39H1 Antibody (NBP1-21367) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-KMT1A/SUV39H1 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	6839
<b>Gene Symbol</b>	SUV39H1
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 28425504).
<b>Immunogen</b>	A synthetic peptide made to an N-terminal portion of the human KMT1A/SUV39H1 protein (between residues 1-100) [UniProt O43463]

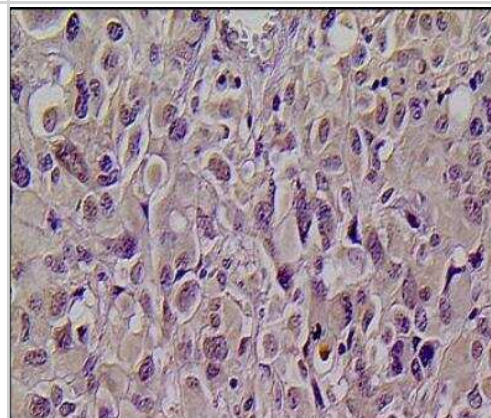
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:2000-1:10000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation 5- 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:10-1:1500
<b>Application Notes</b>	IHC-P, WB reactivity reported in scientific literature (PMID: 23943221), and verified customer reviews. Use in ICC/IF reported in scientific literature (PMID:28425504).

## Images

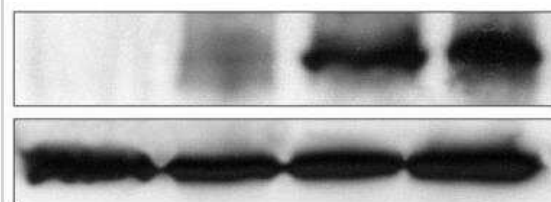
Western Blot: KMT1A/SUV39H1 Antibody [NBP1-21367] - Detection of human SUV39H1 by western blot and immunoprecipitation. Samples: Whole cell lysate (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-SUV39H1 antibody NBP1-21367 used for WB at 0.04 ug/ml (A) and 1 ug/ml (B) and used for IP at 10 ug/mg lysate. SUV39H1 was also immunoprecipitated by a rabbit anti-SUV39H1 antibody recognizing a downstream epitope (B). Detection: Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).



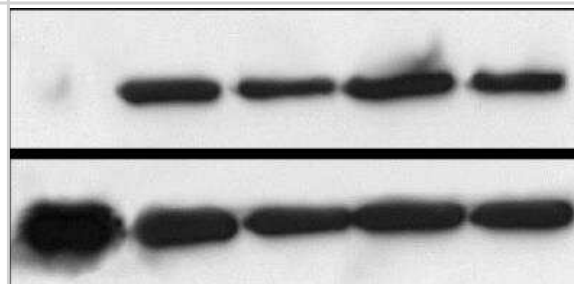
Immunohistochemistry-Paraffin: KMT1A/SUV39H1 Antibody [NBP1-21367] - SUV39H1 expression in human glioma tissue grade IV. Image submitted by a verified customer review.



Western Blot: KMT1A/SUV39H1 Antibody [NBP1-21367] - Up: SUV39H1 expression in normal brain, human glioma tissue grades II, III and IV respectively. Down: Actin expression levels. Image submitted by a verified customer review.



Western Blot: KMT1A/SUV39H1 Antibody [NBP1-21367] - Up: SUV39H1 expression in C6 astrocytic cell line and human glioma cell lines GOS-3, T98G, U87MG and 1321N1. Down: Actin levels. Image submitted by a verified customer review.



## Publications

SepSA A, Levidou G et al. Emerging role of linker histone variant H1x as a biomarker with prognostic value in astrocytic gliomas. A multivariate analysis including trimethylation of H3K9 and H4K20. PLoS One 2015-01-21 [PMID: 25602259] (IF/IHC, Human)

Ayrapetov MK, Xu C, Sun Y et al. Activation of Hif1 $\alpha$  by the prolylhydroxylase inhibitor dimethoxalylglycine decreases radiosensitivity. PLoS One. 2011-10-07 [PMID: 22016813] (WB, Human)

Chen TT, Wu SM, Ho SC et al. SUV39H1 Reduction Is Implicated in Abnormal Inflammation in COPD. Sci Rep. 2017-04-20 [PMID: 28425504] (ICC/IF, IHC-P, Mouse, Human)

Spyropoulou A, Gargalionis A, Dalagiorgou G et al. Role of Histone Lysine Methyltransferases SUV39H1 and SETDB1 in Gliomagenesis: Modulation of Cell Proliferation, Migration, and Colony Formation. Neuromolecular Med. 2013-08-13 [PMID: 23943221] (WB, IHC-P, Human)



## Procedures

### Western Blot protocol for KMT1A/SUV39H1 Antibody (NBP1-21367)

Western Blot Protocol for KMT1A/SUV39H1 Antibody (NBP1-21367):

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 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%.

### Immunohistochemistry-Paraffin Embedded Sections

#### Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

#### Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

\*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 NBP1-21367**

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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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