Product Datasheet

SETDB2 Antibody

NB100-1137

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Reviews: 6 Publications: 2

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NB100-1137

SETDB2 Antibody

Product Information

Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

Product Description

Description	Novus Biologicals Goat SETDB2 Antibody (NB100-1137) is a polyclonal antibody validated for use in WB, ELISA, ICC/IF, IP and ChIP. Anti-SETDB2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	83852
Gene Symbol	SETDB2
Species	Human
Specificity/Sensitivity	This antibody is expected to recognize both reported isoforms (NP_114121.2; NP_001153780.1).
Immunogen	Peptide with sequence GEKNGDAKTFWME-C corresponding to N-Terminus according to NP_114121.2, NP_001153780.1.

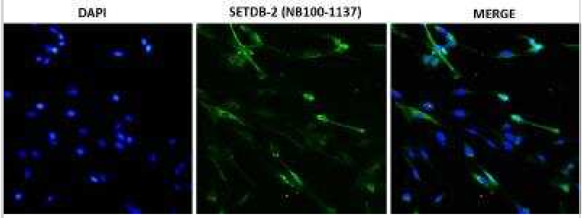
Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Peptide ELISA, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Peptide ELISA Detection limit 1:1000, Chromatin Immunoprecipitation (ChIP)
Application Notes	Approx 85 kDa band observed in nuclear lysates of cell line HeLa (calculated MW of 81.9 kDa according to NP_114121.2). Not suitable on mouse heart and rat heart lysates. This SETDB2 antibody is validated for WB, CHIP, ICC/IF IP from verified customer reviews.

Images

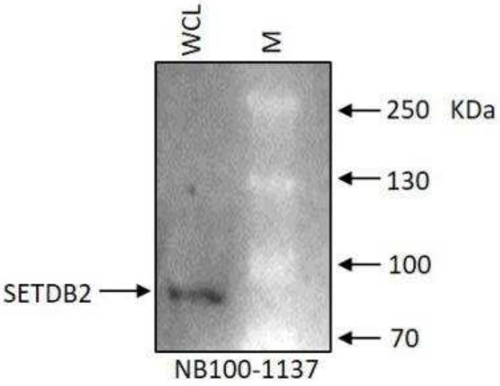
Western Blot: SETDB2 Antibody [NB100-1137] - Staining of Nuclear HeLa lysate with antibody at 0.3 ug/mL (35 ug protein in RIPA buffer). Detected by chemiluminescence.

Immunocytochemistry/Immunofluorescence: SETDB2 Antibody [NB100-1137] - Human dermal microvascular endothelial cells were fixed with 4% paraformaldehyde, permeabilized with 0.2% TritonX-100 and immunostained with NB100-1137 (1:100 dilution). Secondary antibody conjugated to Alexafluor 488. Image submitted by a verified customer review.

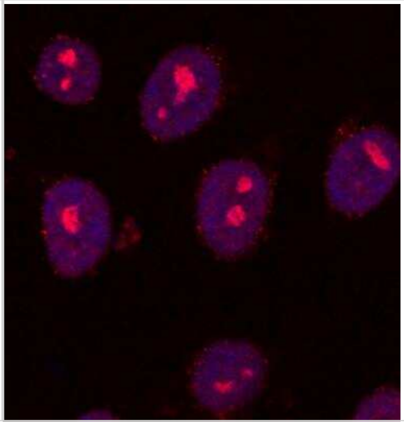


Chromatin Immunoprecipitation (ChIP): SETDB2 Antibody [NB100-1137] - Human B-cell nuclear extract (500 ug). Gene of interest promoter primers were used for amplification to detect ChIP efficiency to IgG control. Image submitted by a verified customer review.

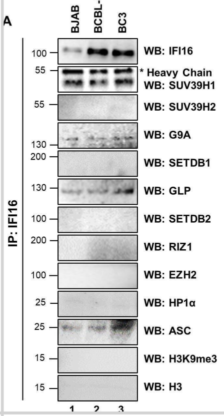
Western Blot: SETDB2 Antibody [NB100-1137] - RL human non-Hodgkin's lymphoma B cell line whole cell lysate (WCL). Single band around correct MW is specific to the target protein SETDB2. Image submitted by a verified customer review.



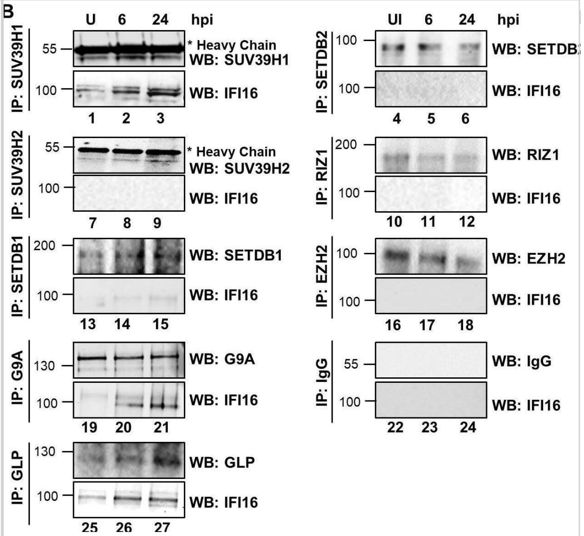
Immunocytochemistry/Immunofluorescence: SETDB2 Antibody [NB100-1137] - SETDB2 in human induced Pluripotent Stem Cells (iPSCs) using anti-SETDB2 antibody. Image submitted by a verified customer review.



Demonstration of IFI16’s interaction with specific H3K9 MTases in KSHV latently infected PEL (BCBL-1 and BC-3) cells and in uninfected control BJAB cells.(A) Nuclear fractions were isolated from latently infected cells and uninfected BJAB cells and treated with Benzonase. IPs were performed using anti-IFI16 mAb and LANA mAb and WBs were performed. (B) To confirm IFI16’s and LANA’s interaction with H3K9 MTases, IPs were done with Abs against the H3K9 MTases and blotted for the corresponding MTase, IFI16, LANA and HP1α (heterochromatin protein 1α). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/31682228), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Demonstration of IFI16’s interaction and recruitment of specific H3K9 MTases during de novo KSHV infection.(A) TIME cells either left uninfected or infected with KSHV for 6 or 24 hr were IPed with anti-IFI16 antibodies and western blotted for the indicated proteins. (B) To confirm IFI16’s interaction with H3K9 MTases, TIME cells were infected as in (A) and IPed with antibodies against the MTases and blotted for the corresponding MTase and IFI16. (C) 293 T cells lacking IFI16 transfected with control plasmid or His-IFI16 expressing plasmid for 72 hr were utilized for His-tag pulldown using HisPur cobalt resin. Inputs and elutions were blotted for the indicated proteins. (D) 293 T cells transfected with control plasmid, IFI16 expressing plasmid or LANA expressing plasmid for 72 hr were IPed with anti-IFI16 mAb or LANA mAb. Inputs and elutions were blotted for the indicated proteins. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/31682228), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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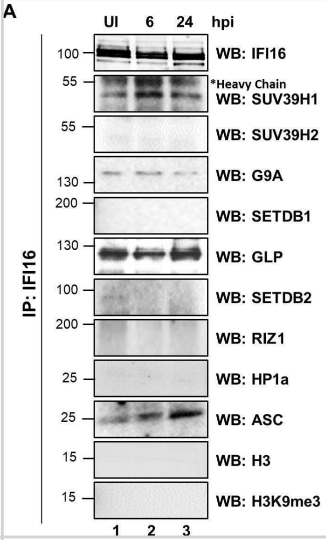

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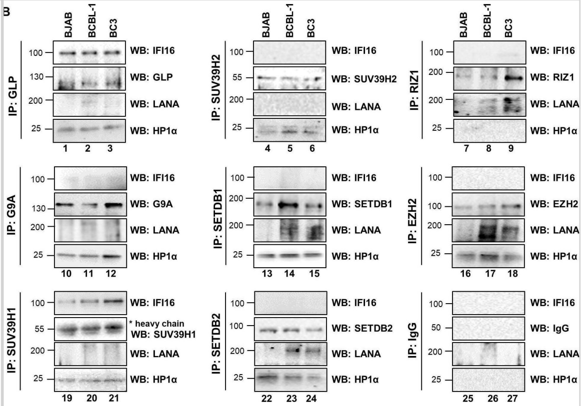
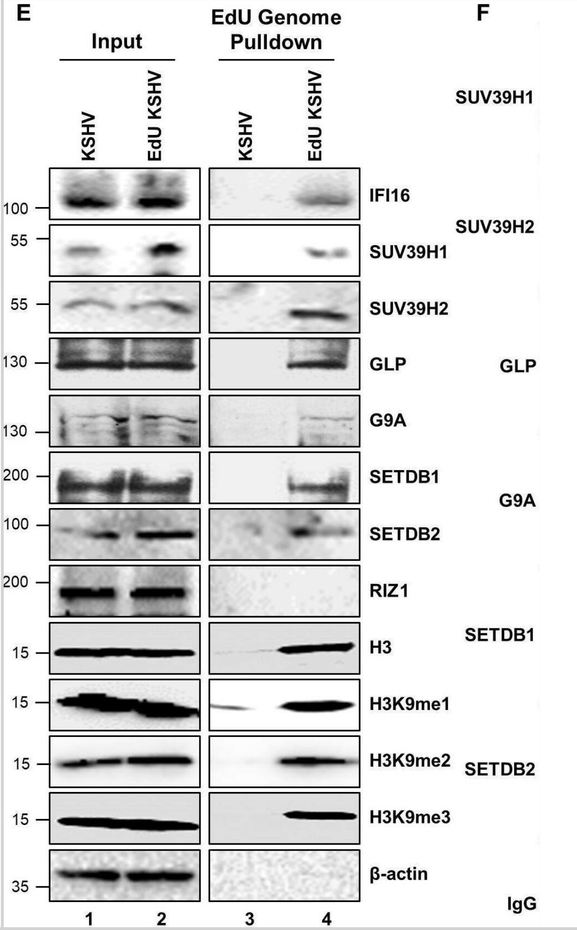


Effect of A366 on KSHV life cycle and the demonstration of IFI16's association with cellular H3K9 methyltransferase(s) (H3K9 MTase) and recruitment of various H3K9 MTases to the KSHV genome during de novo infection.(A) MTT cell viability assay of BCBL-1 cells treated with the H3K9me3 specific chemical inhibitor A366 at different concentrations and different time points. (B) q-RT PCR (two-step, sybr Green) of KSHV mRNAs in BCBL-1 cells treated for 72 hr with either vehicle control DMSO or A366 (10 uM and 100 uM). (C) WB of different H3 methylations and IFI16 after A366 treatment of BCBL-1 cells. (D) H3K9 methyltransferase activity (ng/h/mg) assay. TIME cells were infected with KSHV for 6 or 24 hr followed by isolation of nuclear fraction, benzonase treatment and IP with anti-IFI16 or control IgG in the presence of benzonase using the catch and release method. Elution was performed under non-denaturing conditions to keep the associated H3K9 methyltransferase active. H3K9 methyltransferase activity was assayed in the eluate (Materials and methods). *, p<0.05; **, p<0.01; ***,<0.001; unpaired t-test. (E) TIME cells were infected with KSHV genome labeled with EdU or unlabeled control KSHV (100 DNA copies/cell) for 24 hr followed by EdU-KSHV genome pulldown using Click chemistry. The inputs and eluates were blotted for different H3K9 MTases. (F) TIME cells were infected with EdU-labeled KSHV as in (D) and stained using the Click-iT EdU Alexa Fluor 594 Imaging Kit (red). Subsequently, IFA was performed against different H3K9 MTases and colocalization of the IFA signal (green) with KSHV EdU-genome staining (red) resulting in yellow was evaluated (enlarged image, white arrows). Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/31682228), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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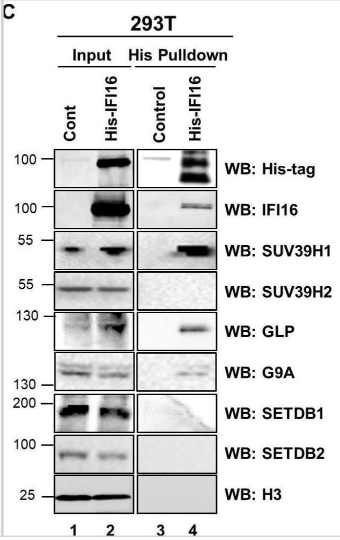

Publications

Roy A, Ghosh A, Kumar B, Chandran B IFI16, a nuclear innate immune DNA sensor, mediates epigenetic silencing of herpesvirus genomes by its association with H3K9 methyltransferases SUV39H1 and GLP Elife 2019-11-04 [PMID: 31682228] (ICC/IF, IP, WB, Chemotaxis, Human)

Mabuchi H, Fujii H, Calin G et al. Cloning and characterization of CLLD6, CLLD7, and CLLD8, novel candidate genes for leukemogenesis at chromosome 13q14, a region commonly deleted in B-cell chronic lymphocytic leukemia. Cancer Res 2001-04-01 [PMID: 11306461]

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NB410-28088-1mg	Goat IgG Isotype Control

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