Product Datasheet

DOT1L Antibody
NB100-40845

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-40845

DOT1L Antibody

Product Information

Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	185 kDa

Product Description

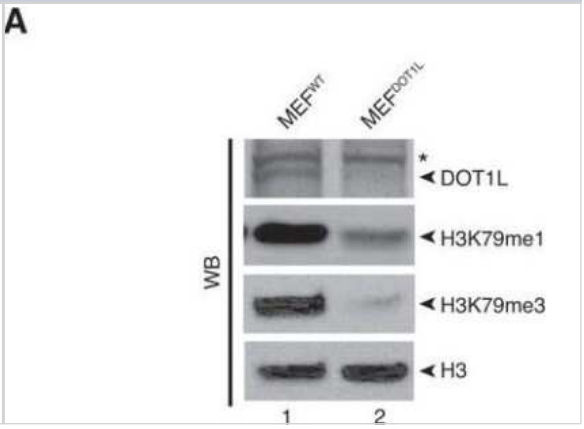
Host	Rabbit
Gene ID	84444
Gene Symbol	DOT1L
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 23861670).
Immunogen	The immunogen recognized by this antibody maps to a region between residue1000 and 1050 of human DOT1-Like using the numbering given in entry NP_115871.1 (GeneID 84444).

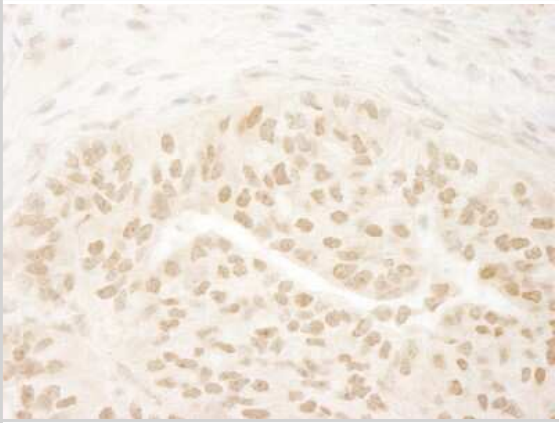
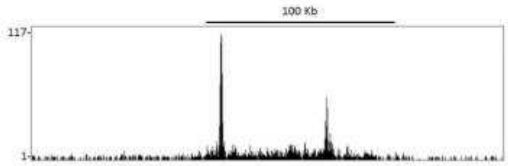
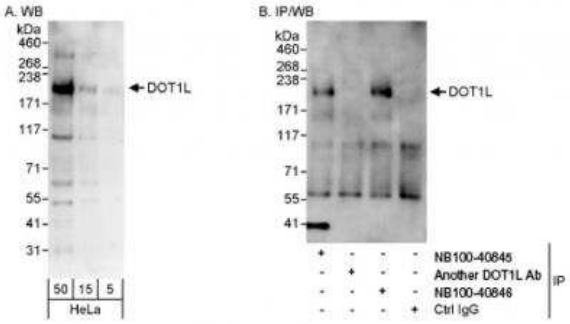
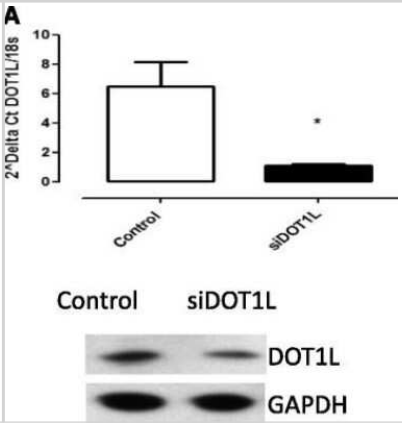
Product Application Details

Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:200-1:1000, Immunoprecipitation 2-5 ug/mg lysate, Immunohistochemistry-Paraffin 1:200-1:1000, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Application Notes	Chromatin Immunoprecipitation was reported in scientific literature (PMID:19734945). For ChIP-Seq: 4 ug/30 ug chromatin. Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE tissue sections.

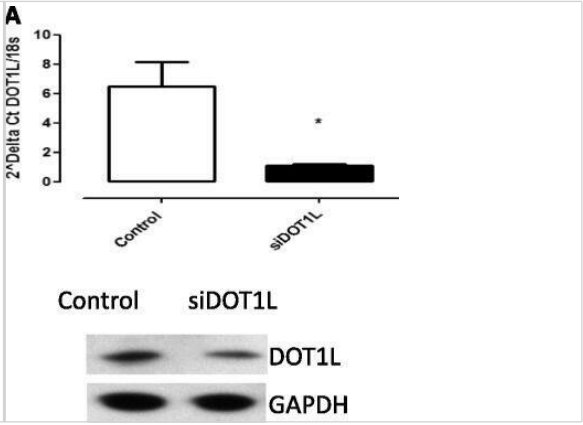
Images

Western Blot: DOT1L Antibody [NB100-40845] - DOT1L is involved in UV-survival in mammalian cells. Fifty ug of whole cell extracts from MEFWT or MEFDOT1L cells were resolved by SDS-PAGE and Western-blotted for DOT1L. Asterisk indicates an unspecific cross-reacting band. Ten ug of fractions from histone acid-extraction performed on MEFWT or MEFDOT1L cells were resolved by SDS-PAGE and Western-blotted for H3, H3K79me1 or H3K79me3. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.pgen.1003611), licensed under a CC-BY license.



Immunohistochemistry-Paraffin: DOT1L Antibody [NB100-40845] - Human lung carcinoma. Antibody: Affinity purified rabbit anti-DOT1L used at a dilution of 1:200 (1ug/ml). Detection: DAB	
Chromatin Immunoprecipitation: DOT1L Antibody [NB100-40845] - Chromatin from KOPN-8 cell line was immunoprecipitated with anti-DOT1L antibody and analyzed by DNA sequencing. The figure illustrates the peak distribution of DOT1L binding within a 250 Kb region of chromosome 10 as detected using anti-DOT1L antibody.	
Western Blot: DOT1L Antibody [NB100-40845] - Whole cell lysate (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) from HeLa cells. Affinity purified rabbit anti-DOT1L antibody NB100-40845 used for WB at 0.04 ug/ml (A) and 1 ug/ml (B) and used for IP at 3 ug/mg lysate (B).	
Western Blot: DOT1L Antibody [NB100-40845] - siRNA mediated gene silencing of DOT1L validated by Q-PCR and western blot. The results show a down regulation of DOT1L mRNA expression. Empty bars are untreated cells and solid bars are transfected cells. Results from HSkMSC cultures derived from three different experiments on cells at passage three, Graph is presenting means +/- SEM. *, p-value < 0.05 siRNA treated cells compared to controls Image collected and cropped by CiteAb from the following publication (https://respiratory-research.biomedcentral.com/articles/10.1186/s12931-017-0525-x), licensed under a CC-BY license.	

siRNA mediated gene silencing of DOT1L validated by Q-PCR and western blot. The results show a down regulation of DOT1L mRNA expression (a) and a decrease of DOT1L protein level (b). Empty bars are untreated cells and solid bars are transfected cells. Results from HSkMSC cultures derived from three different experiments on cells at passage three, Graph is presenting means ± SEM. *, p-value < 0.05 siRNA treated cells compared to controls



Publications

Zhao W, Sun F, Zhang L, Ouyang J. NEAT1 variant 1 weakens the genome-wide effect of miR-3122 on blocking H3K79me3 in bladder cancer Aging (Albany NY) 2022-06-15 [PMID: 35687898]

Yang M, Yu H, Yu X et al. Chemical-induced chromatin remodeling reprograms mouse ESCs to totipotent-like stem cells Cell stem cell 2022-03-03 [PMID: 35143761] (ICC/IF, Chip Cytometry, Mouse)

Luo H, Zhu G, Xu J et al. HOTTIP lncRNA Promotes Hematopoietic Stem Cell Self-Renewal Leading to AML-like Disease in Mice Cancer Cell 2019-11-27 [PMID: 31786140] (Mouse)

Lakhdar R, Drost EM, MacNee W et al. 2D-DIGE proteomic analysis of vastus lateralis from COPD patients with low and normal fat free mass index and healthy controls Respir Res. 2017-05-02 [PMID: 28468631] (KD, WB, Human)

Lv L, Li Q, Chen S et al. miR-133b suppresses colorectal cancer cell stemness and chemoresistance by targeting methyltransferase DOT1L Exp. Cell Res. [PMID: 31525340] (WB)

Liu B, Yang L, Zhu X et al. Yeats4 drives ILC lineage commitment via activation of Lmo4 transcription J. Exp. Med. 2019-08-21 [PMID: 31434684] (WB, Human)

Loeser Heike, Waldschmidt Dirk, Kuetting Fabian et al. Copy-number variation and protein expression of DOT1L in pancreatic adenocarcinoma as a potential drug target. Molecular and Clinical Oncology 2017-03-14 [PMID: 28529740] (IF/IHC, Human)

Szablewski V, Bret C, Kassambara A et al. An epigenetic regulator-related score (EpiScore) predicts survival in patients with diffuse large B cell lymphoma and identifies patients who may benefit from epigenetic therapy Oncotarget 2018-04-10 [PMID: 29721185] (IF/IHC, Human)

Gilan O, Lam EY, Becher I et al. Functional interdependence of BRD4 and DOT1L in MLL leukemia. Nat. Struct. Mol. Biol. 2016-06-13 [PMID: 27294782]

Oksenych V, Zhovmer A, Ziani S et al. Histone Methyltransferase DOT1L Drives Recovery of Gene Expression after a Genotoxic Attack. PLoS Genet 2013-07-01 [PMID: 23861670] (WB, Mouse)

Shah S, Henriksen MA. A novel disrupter of telomere silencing 1-like (DOT1L) interaction is required for signal transducer and activator of transcription 1 (STAT1)-activated gene expression. J Biol Chem 2011-12-01 [PMID: 22002246]

Steger DJ, Lefterova MI, Ying L et al. DOT1L/KMT4 recruitment and H3K79 methylation are ubiquitously coupled with gene transcription in mammalian cells. Mol Cell Biol 2008-04-01 [PMID: 18285465]

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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