Product Datasheet

KMT2A/MLL Antibody - BSA Free
NB600-248

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB600-248

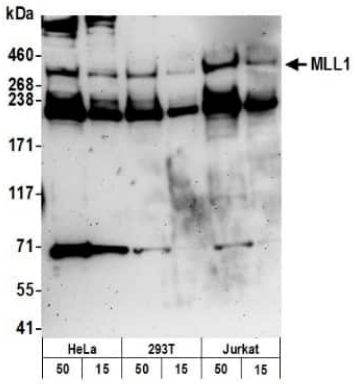
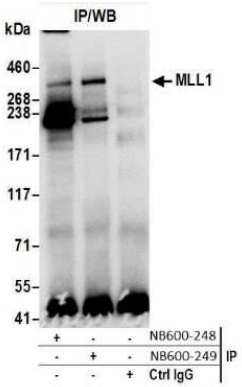
KMT2A/MLL Antibody - BSA Free

Product Information	
Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description	
Host	Rabbit
Gene ID	4297
Gene Symbol	KMT2A
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 31786140).
Immunogen	The immunogen recognized by this antibody maps to a region between residues 720 and 780 of human myeloid/lymphoid or mixed-lineage leukemia 1 using the number given in Swiss-Prot entry Q03164 (GeneID 4297).

Product Application Details	
Applications	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:5000, Immunohistochemistry, Immunoprecipitation 2 - 10 ug/mg of lysate, Immunohistochemistry-Paraffin 1:100-1:250
Application Notes	Use in IHC-P reported in scientific literature (PMID: 27396339).

Images

Western Blot: KMT2A/MLL Antibody [NB600-248] - Samples: Nuclear extract (50 and 15 ug) from HeLa, 293T, and Jurkat cells. Antibody: Affinity purified rabbit anti-MLL1 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.	
Immunoprecipitation: KMT2A/MLL Antibody [NB600-248] - Samples: Nuclear Extract (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-MLL1 antibody NB600-248 used for IP at 6 ug per reaction. MLL1 was also immunoprecipitated by rabbit anti-MLL1 antibody NB600-249. For blotting immunoprecipitated MLL1, NB600-248 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.	

Publications

Tianyu Zou, Kazuo Sugimoto, Yu Zhao, Baitao Li, Xiaomao Zhou, Cheng Peng Zhi□zi□chi decoction mitigates depression by enhancing lncRNA Six3os1 expression and promoting histone H3K4 methylation at the BDNF promoter Journal of Cellular and Molecular Medicine 2024-05-31 [PMID: 38818577]

Oelschl□ger L, Stahl P, Kaschani F et al. Taspase1 Facilitates Topoisomerase II?-Mediated DNA Double-Strand Breaks Driving Estrogen-Induced Transcription Cells 2023-01-18 [PMID: 36766705] (Immunoprecipitation)

Zhu G, Luo H, Feng Y et al. HOXBLINC long non-coding RNA activation promotes leukemogenesis in NPM1-mutant acute myeloid leukemia Nature communications 2021-03-29 [PMID: 33782403] (RIP, Chemotaxis, Human)

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)

Barrett NA, Malouf C, Kapeni C et al. Mll-AF4 Confers Enhanced Self-Renewal and Lymphoid Potential during a Restricted Window in Development Cell Rep 2016-07-26 [PMID: 27396339] (IHC-P)

Shore AN, Kabotyanski EB, Roarty K et al. Pregnancy-induced noncoding RNA (PINC) associates with polycomb repressive complex 2 and regulates mammary epithelial differentiation. PLoS Genet 2012-01-01 [PMID: 22911650]

Liu X, Qu X, Chen Y et al. Mesenchymal stem/stromal cells induce the generation of novel IL-10-dependent regulatory dendritic cells by SOCS3 activation. J Immunol 2012-08-01 [PMID: 22753940]

Akalin A, Garrett-Bakelman FE, Kormaksson M et al. Base-pair resolution DNA methylation sequencing reveals profoundly divergent epigenetic landscapes in acute myeloid leukemia. PLoS Genet 2012-01-01 [PMID: 22737091]

Zhang Y, Liu Z, Medrzycki M et al. Reduction of Hox gene expression by histone H1 depletion. PLoS One 2012-01-01 [PMID: 22701719]

Wang QF, Wu G, Mi S et al. MLL fusion proteins preferentially regulate a subset of wild-type MLL target genes in the leukemic genome. Blood 2011-06-01 [PMID: 21518926]

Guccione E, Martinato F, Finocchiaro G et al. Myc-binding-site recognition in the human genome is determined by chromatin context. Nat Cell Biol 2006-07-01 [PMID: 16767079]

Terranova R, Agherbi H, Boned A et al. Histone and DNA methylation defects at Hox genes in mice expressing a SET domain-truncated form of Mll. Proc Natl Acad Sci U S A 2006-04-01 [PMID: 16618927]

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Products Related to NB600-248

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-55237PEP	KMT2A/MLL Recombinant Protein Antigen

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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