Product Datasheet

LSD1 Antibody (1B2E5)
NB100-1762

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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Publications: 12

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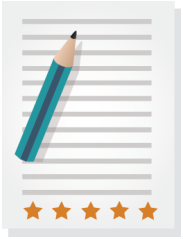
Updated 2/17/2025 v.20.1



NB100-1762

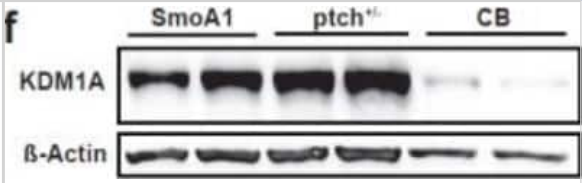
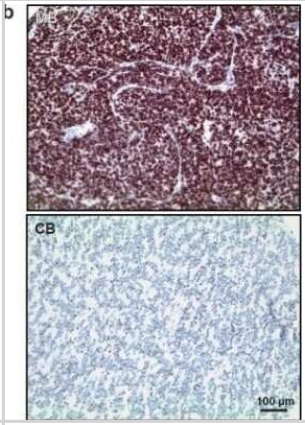
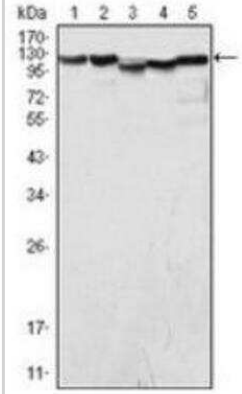
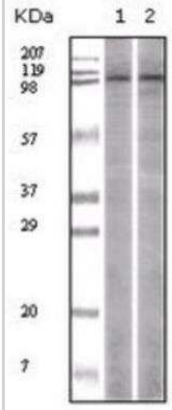
LSD1 Antibody (1B2E5)

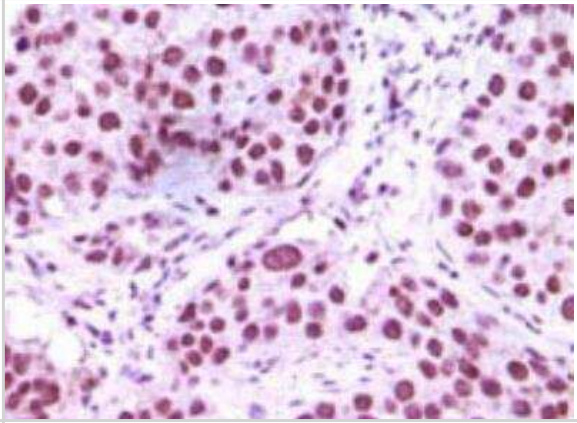
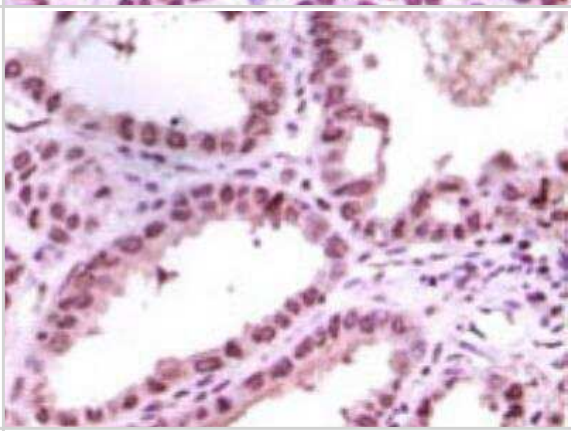
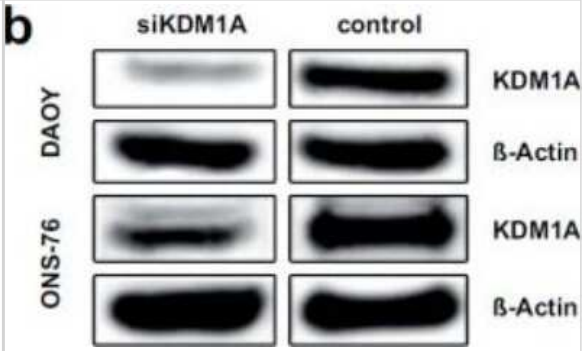
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1B2E5
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	93 kDa

Product Description	
Host	Mouse
Gene ID	23028
Gene Symbol	KDM1A
Species	Human, Mouse, Primate
Reactivity Notes	Human, mouse and monkey.
Marker	Nucleus Marker
Immunogen	Purified recombinant fragment of human LSD1 (between amino acids 400-600) expressed in E. coli. [UniProt# O60341]

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:500, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Application Notes	This LSD1 (1B2E5) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections and ELISA. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:500, apparent MW was 120 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - KDM1A is strongly overexpressed in human medulloblastomas, cell lines derived from them and murine medulloblastic tumors. Strong KDM1A protein expression was confirmed in the medulloblastic tumors from SmoA1-and Ptch+/A-mice relative to KDM1A expression in cerebellar tissue (CB) using western blotting of tissue lysates. I2-actin expression was used as a loading control. Image collected and cropped by Citeab from the following publication (The KDM1A histone demethylase is a promising new target for the epigenetic therapy of medulloblastoma. Acta Neuropathol Commun (2013)) licensed under a CC-BY license.	
Immunohistochemistry-Paraffin: LSD1 Antibody (1B2E5) [NB100-1762] - KDM1A is strongly overexpressed in human medulloblastomas, cell lines derived from them and murine medulloblastic tumors. KDM1A protein expresion was evaluated immunohistochemically in a tissue microarray of 70 medulloblastomas (MB) and 9 tissue samples of normal cerebellum (CB). Micrograph showing KDM1A-positive staining in a representative MB sample, and KDM1A-negative staining in CB, scale bar=100AI1/4m. Image collected and cropped by Citeab from the following publication (The KDM1A histone demethylase is a promising new target for the epigenetic therapy of medulloblastoma. *Acta Neuropathol Commun* (2013)) licensed under a CC-BY license.	
Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - Western blot analysis using LSD1 mouse mAb against COS (1), Hela (2), NIH/3T3 (3), A549 (4) and Jurkat (5) cell lysate.	
Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - Analysis of LSD1 expression in Hela (1) and Jurkat (2) whole cell lysates.	

Immunohistochemistry-Paraffin: LSD1 Antibody (1B2E5) [NB100-1762] - Immunohistochemical analysis of paraffin-embedded Human Lung Carcinoma tissue, showing nuclear localization using LSD1 antibody with DAB staining.	
Immunohistochemistry-Paraffin: LSD1 Antibody (1B2E5) [NB100-1762] - Immunohistochemical analysis of paraffin-embedded Human Kidney Carcinoma tissue, showing nuclear localization using LSD1 antibody with DAB staining.	
Simple Western: LSD1 Antibody (1B2E5) [NB100-1762] - Simple Western lane view shows a specific band for LSD1 in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. *Non-specific interaction with the 230 kDa standard may be seen with this antibody.	
Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - Knockdown of KDM1A protein was confirmed by western blotting of whole-cell lysates from DAOY and ONS-76 cells. beta-actin served as loading control. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/24252778/) licensed under a CC-BY license.	

Publications

Antona A, Leo G, Favero F et al. Targeting lysine-specific demethylase 1 (KDM1A/LSD1) impairs colorectal cancer tumorigenesis by affecting cancer cells stemness, motility, and differentiation Cell death discovery 2023-06-29 [PMID: 37385999] (IHC-P)

Details:
Dilution: 1:1500

Haydn T, Kehr S, Willmann D et al. Next-generation sequencing reveals a novel role of lysine-specific demethylase 1 in adhesion of rhabdomyosarcoma cells Int. J. Cancer 2019-11-21 [PMID: 31755110] (WB, Human)

Kim D, Nam H, Lee W et al. PKCa-LSD1-NF-kB-Signaling Cascade Is Crucial for Epigenetic Control of the Inflammatory Response Molecular Cell 2018-01-01 [PMID: 29395062] (Mouse)

Lobo J, Rodrigues A, Antunes L et al. High immunoexpression of Ki67, EZH2, and SMYD3 in diagnostic prostate biopsies independently predicts outcome in patients with prostate cancer Urol. Oncol. 2017-11-22 [PMID: 29174711] (Human)

Pajtler KW, Weingarten C, Thor T et al. The KDM1A histone demethylase is a promising new target for the epigenetic therapy of medulloblastoma. Acta Neuropathol Commun. 2013-05-29 [PMID: 24252778] (WB, IHC-P, Mouse, Human)

Kashyap V, Ahmad S, Nilsson EM et al. The lysine specific demethylase-1 (LSD1/KDM1A) regulates VEGF-A expression in prostate cancer. Mol Oncol. 2015-03-02 [PMID: 23384557] (WB, IF/IHC, Human)

Lim S, Janzer A, Becker A et al. Lysine-specific demethylase 1 (LSD1) is highly expressed in ER-negative breast cancers and a biomarker predicting aggressive biology Carcinogenesis 2010-03-01 [PMID: 20042638] (ELISA, IF/IHC, Chemotaxis, WB, Human)

Serce N, Gnatzy A, Steiner S et al. Elevated expression of LSD1 (Lysine-specific demethylase 1) during tumour progression from pre-invasive to invasive ductal carcinoma of the breast BMC Clin Pathol 2012-08-24 [PMID: 22920283] (IF/IHC, Human)

Schildhaus HU, Riegel R, Hartmann W, Steiner S, Wardelmann E, Merkelbach-Bruse S, Tanaka S, Sonobe H, Schule R, Buettner R, Kirfel J. Lysine-specific demethylase 1 is highly expressed in solitary fibrous tumors, synovial sarcomas, rhabdomyosarcomas, desmoplastic small round cell tumors, and malignant peripheral nerve sheath tumors. Hum Pathol;42(11):1667-75. 2011-11-01 [PMID: 21531005] (IF/IHC, WB, Human)

Kauffman EC, Robinson BD, Downes MJ et al. Role of androgen receptor and associated lysine-demethylase coregulators, LSD1 and JMJD2A, in localized and advanced human bladder cancer. Mol Carcinog. 2015-03-02 [PMID: 21400613] (IF/IHC, Human)

Janzer A, Lim S, Fronhoffs F, Niazy N, Buettner R, Kirfel J. Lysine-specific demethylase 1 (LSD1) and histone deacetylase 1 (HDAC1) synergistically repress proinflammatory cytokines and classical complement pathway components. Biochem Biophys Res Commun. 2012-04-17 [PMID: 22542627] (Chemotaxis, WB, Human)

Bennani-Baiti IM, Machado I, Llombart-Bosch A, Kovar H. Lysine-specific demethylase 1 (LSD1/KDM1A/AOF2/BHC110) is expressed and is an epigenetic drug target in chondrosarcoma, Ewing's sarcoma, osteosarcoma, and rhabdomyosarcoma. Hum Pathol. 2012-01-13 [PMID: 22245111] (IF/IHC, Human)

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NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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