

# Product Datasheet

## LSD1 Antibody (1B2E5) - BSA Free NB100-1762

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-1762**

LSD1 Antibody (1B2E5) - BSA Free

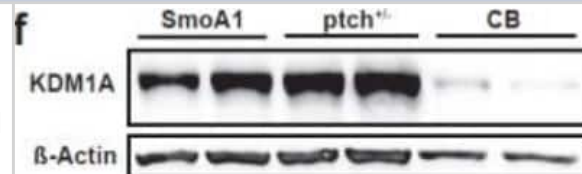
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	1B2E5
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	PBS
Target Molecular Weight	93 kDa

Product Description	
Description	Novus Biologicals Mouse LSD1 Antibody (1B2E5) - BSA Free (NB100-1762) is a monoclonal antibody validated for use in IHC, WB, ELISA, Simple Western and ChIP. Anti-LSD1 Antibody: Cited in 12 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
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]

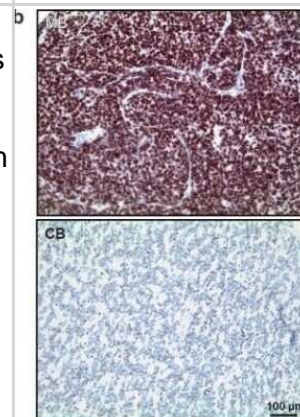
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Immunohistochemistry, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:2000, Simple Western 1:500, ELISA 1:10000, Immunohistochemistry 1:200-1:1000, Immunohistochemistry-Paraffin 1:200-1:1000, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Application Notes	<p>This LSD1 (1B2E5) antibody is useful for Western blot, Immunohistochemistry on paraffin-embedded sections and ELISA.</p> <p>In Simple Western only 10 - 15 uL of the recommended dilution is used per data point.</p> <p>See <a href="#">Simple Western Antibody Database</a> 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.</p> <p>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.</p>

## Images

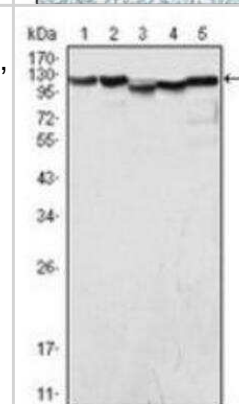
Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - KDM1A is strongly overexpressed in human medulloblastomas, cell lines derived from them and murine medulloblastic tumors. Strong KDM1A protein expression was confirmed in the medulloblastic tumors from SmoA1- and Ptch+/- mice relative to KDM1A expression in cerebellar tissue (CB) using western blotting of tissue lysates.  $\beta$ -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.



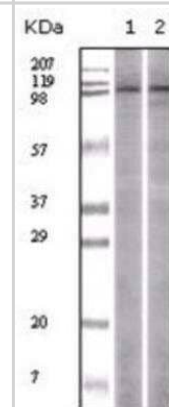
Immunohistochemistry-Paraffin: LSD1 Antibody (1B2E5) [NB100-1762] - KDM1A is strongly overexpressed in human medulloblastomas, cell lines derived from them and murine medulloblastic tumors. KDM1A protein expression was evaluated immunohistochemically in a tissue microarray of 70 medulloblastomas (MB) 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=100 $\mu$ m. 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.



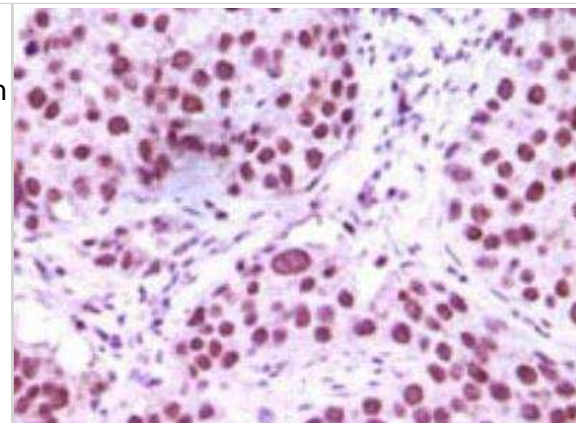
Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - Western blot analysis using LSD1 mouse mAb against COS (1), Hela (2), NIH/3T3 (3), A549 (4) and Jurkat (5) cell lysate.



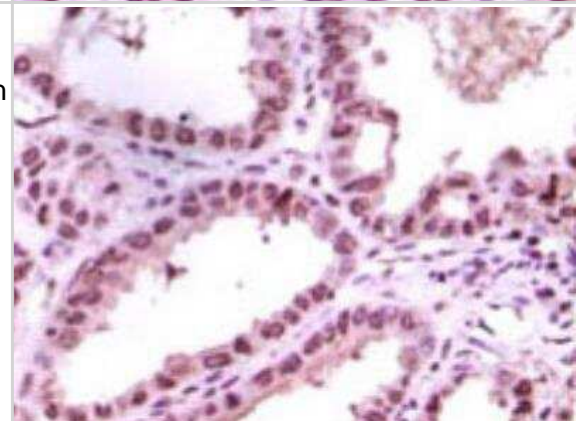
Western Blot: LSD1 Antibody (1B2E5) [NB100-1762] - Analysis of LSD1 expression in Hela (1) and Jurkat (2) whole cell lysates.



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.



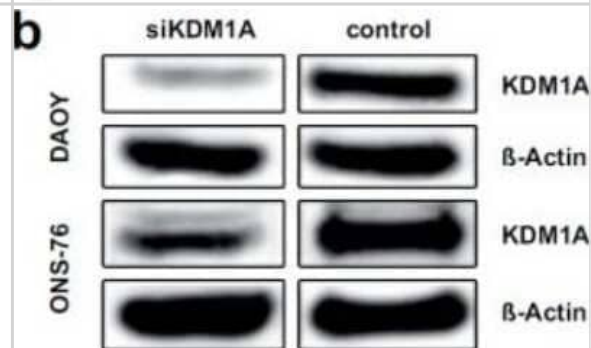
Immunohistochemistry-Paraffin: LSD1 Antibody (1B2E5) [NB100-1762] - Immunohistochemical analysis of paraffin-embedded Human Kidney Carcinoma tissue, showing nuclear localization using LSD1 antibody with DAB staining.



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/](https://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)

Pajtlér 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)

Serçe 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, Niazzy 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)



## Procedures

### Western Blot Protocol for LSD1 Antibody (NB100-1762)

#### Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST 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 manufacturer's instructions.





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### **Products Related to NB100-1762**

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NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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