

Product Datasheet

KDM2A/FBXL11 Antibody NB100-74602

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-74602**KDM2A/FBXL11 Antibody**

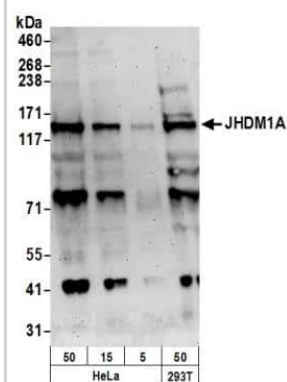
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	133 kDa

Product Description	
Description	Novus Biologicals Rabbit KDM2A/FBXL11 Antibody (NB100-74602) is a polyclonal antibody validated for use in IHC, WB, IP and ChIP. Anti-KDM2A/FBXL11 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	22992
Gene Symbol	KDM2A
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 825 and 875 of human JmjC domain-containing histone demethylation protein 1A using the numbering given in entry NP_036440.1 (GeneID 22992).

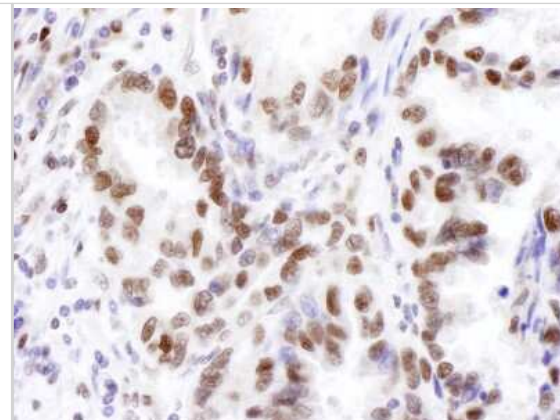
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry, Immunoprecipitation 2-10 ug/mg lysate, Immunohistochemistry-Paraffin 1:100-1:500, Chromatin Immunoprecipitation (ChIP)
Application Notes	Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections. Use in chromatin immunoprecipitation reported in scientific literature (PMID: 30132864). KDM2A/FBXL11 antibody validated for IHC-P from a verified customer review.

Images

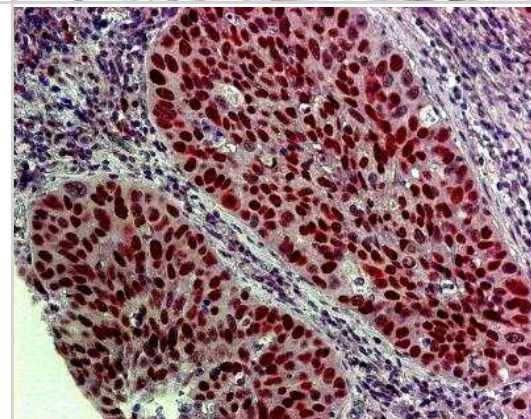
Western Blot: KDM2A/FBXL11 Antibody [NB100-74602] - Detection of Human JHDM1A by Western Blot. Samples: Whole cell lysate from HeLa (50, 15, 5 ug) and 293T (50 ug) cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-JHDM1A antibody NB100-74602 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



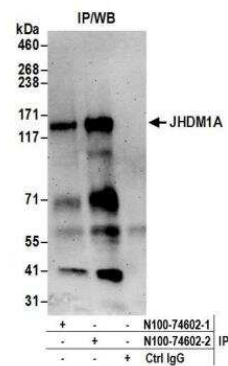
Immunohistochemistry-Paraffin: KDM2A/FBXL11 Antibody [NB100-74602] - Section of human lung cancer. Antibody: Affinity purified rabbit anti- JHDM1A used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



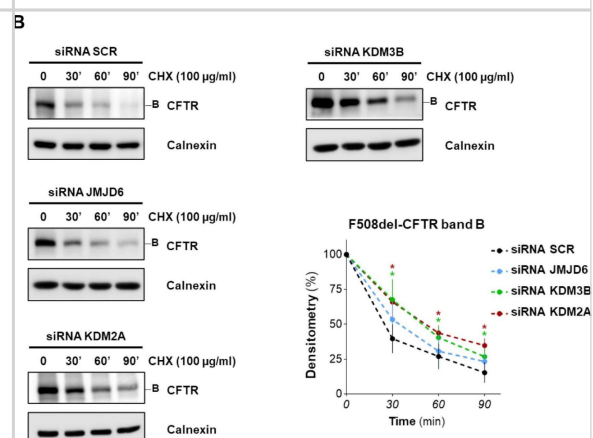
Immunohistochemistry-Paraffin: KDM2A/FBXL11 Antibody [NB100-74602] - Analysis of human lung tumor tissue using anti-KDM2A antibody. Image submitted by a verified customer review.



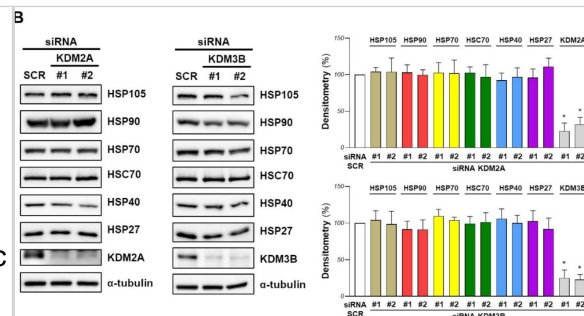
Immunoprecipitation: KDM2A/FBXL11 Antibody [NB100-74602] - Detection of human JHDM1A by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-JHDM1A antibody NB100-74602 (lot NB100-74602-2) used for IP at 6 ug per reaction. JHDM1A was also immunoprecipitated by a previous lot of this antibody (lot NB100-74602-1). For blotting immunoprecipitated JHDM1A, NB100-74602 was used at 0.4 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Transcriptional and stability analysis of F508del-CFTR after demethylases downregulation. (A) CFTR mRNA levels determined by quantitative real-time PCR in F508del-CFTR expressing CFBE41o- cells were transfected with two different siRNAs for each target (JMJD6, KDM2A, KDM3B) for 48 h. CFTR mRNA expression was normalized to 18S RNA and reported relative to its expression in control (SCR) cells that was arbitrarily set to 1 (means +/- SD values, n = 5). (B) F508del-CFTR overexpressing CFBE41o- cells were transfected with siRNA targeting JMJD6, KDM2A, KDM3B or with scrambled siRNAs for 48 h. Subsequently, protein synthesis was inhibited by adding 100 ug/mL cycloheximide (CHX) and cells were harvested after 30, 60 and 90 min. Protein lysates were analyzed by western blot with an anti-CFTR antibody. Calnexin was used as a loading control. The lower-right graph represents the densitometric quantification of the immunostained bands of F508del-CFTR band B normalized by the value at time = 0 (mean +/- SD, n = 4; * p < 0.05 vs. the value of the same time-point of SCR). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36077010>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Mutational analysis of CFTR methylated lysine and effect of demethylases downregulation on chaperone machinery. (A) CFBE41o-cells were transiently transfected with F508del-CFTR, or other derivative mutants as indicated. After 24 h, cells were treated with 3 μ M VX-809 and the amounts of F508del-CFTR band B and band C were assessed by western blotting. α -tubulin was used as loading control (upper panel). In the lower panel, the graphs show the ratio of F508del-CFTR band C/band B for the cells treated with VX-809, obtained by the densitometric quantification of the immunostained band C normalized by band B expression, and expressed as a percentage of the control cells (Ctrl) (means \pm SD values, n = 4; * p < 0.05 vs. Ctrl). (B) F508del-CFTR expressing CFBE41o-cells were transfected with siRNA (#1 and #2 guides) targeting KDM2A or KDM3B or with a scrambled (SCR) siRNA for 48 h. In the left and central panels, the expression of the indicated chaperones was analysed by western blotting. α -tubulin was used as loading control. In the right panel, the graphs report the densitometric quantification of the immunostained bands of the experiment detailed in the left and central panels normalized by α -tubulin expression, and expressed as a percentage of the control cells (SCR). (Means \pm SD values, n = 3; * p < 0.05 vs. SCR). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36077010>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Chen JK, Merrick KA, Kong YW et al. An RNA damage response network mediates the lethality of 5-FU in colorectal cancer. *Cell reports*. Medicine 2024-10-16 [PMID: 39378883]

Chen JK, Merrick KA, Kong YW et al. An RNA Damage Response Network Mediates the Lethality of 5-FU in Clinically Relevant Tumor Types bioRxiv : the preprint server for biology 2023-04-29 [PMID: 37162991] (Block/Neutralize)

D'Amore C, Borgo C, Bosello Travain V, Salvi M KDM2A and KDM3B as Potential Targets for the Rescue of F508del-CFTR *International Journal of Molecular Sciences* 2022-08-25 [PMID: 36077010] (WB, KD, Human)

Lu B, Wei J, Zhou H et al. Histone H3K36me2 demethylase KDM2A promotes bladder cancer progression through epigenetically silencing RARRES3 *Cell death & disease* 2022-06-13 [PMID: 35697678] (Chemotaxis, Human)

Ou R, Zhu L, Zhao L et al. HPV16 E7-induced upregulation of KDM2A promotes cervical cancer progression by regulating miR-132-radixin pathway *J. Cell. Physiol.* 2018-08-21 [PMID: 30132864] (Chemotaxis, Human)

Dhar Shilpa S, Alam Hunain, Li Na et al. Transcriptional repression of histone deacetylase 3 by the histone demethylase KDM2A is coupled to tumorigenicity of lung cancer cells. *J Biol Chem.* 2014-03-14 [PMID: 24482232]

Wagner KW, Alam H, Dhar SS et al. KDM2A promotes lung tumorigenesis by epigenetically enhancing ERK1/2 signaling. *J Clin Invest* 2013-12-02 [PMID: 24200691] (WB, Human)



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Products Related to NB100-74602

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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