Product Datasheet

JMJD2D Antibody - BSA Free
NBP1-03357

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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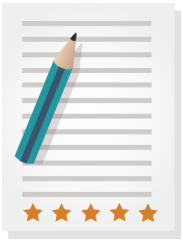
Updated 10/23/2024 v.20.1



NBP1-03357

JMJD2D Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	55 kDa

Product Description	
Host	Rabbit
Gene ID	55693
Gene Symbol	KDM4D
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: monkey (92%).
Immunogen	Synthetic peptide made to a C-terminal portion of the human JMJD2D protein (within residues 460-520). [Swiss-Prot# Q6B0I6]

Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), ICC/IF (Negative)
Recommended Dilutions	Western Blot 0.2 ug/ml, Chromatin Immunoprecipitation reported in scientific literature, ICC/IF (Negative), Chromatin Immunoprecipitation (ChIP)
Application Notes	This JMJD2D antibody is useful for Western blot, where a band is seen at ~55 kDa. This antibody is not useful for ICC/IF. 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: JMJD2D Antibody [NBP1-03357] - Western Blot Image of anti-JMJD2D. Whole cell protein from PC3 (lane 1), SHSY5Y (lane 2), and HeLa (lane 3) was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-JMJD2D in 1% milk, and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.

Publications

Duan L, Perez RE, Calhoun S, Maki CG Inhibitors of Jumonji C domain-containing histone lysine demethylases overcome cisplatin and paclitaxel resistance in non-small cell lung cancer through APC/Cdh1-dependent degradation of CtIP and PAF15 Cancer biology & therapy 2022-12-31 [PMID: 35100078] (WB)

Duan, L;Perez, RE;Chastain, PD;Mathew, MT;Bijukumar, DR;Maki, CG; JMJD2 promotes acquired cisplatin resistance in non-small cell lung carcinoma cells Oncogene 2019-04-09 [PMID: 30967636] (WB, Human)

Luo W, Chang R, Zhong J, Pandey A, Semenza GL. Histone demethylase JMJD2C is a coactivator for hypoxia-inducible factor 1 that is required for breast cancer progression. Proc Natl Acad Sci U S A. 2012-12-04 [PMID: 23129632] (Chemotaxis, Human)

Procedures

Western Blot protocol for JMJD2D Antibody (NBP1-03357)
JMJD2D Antibody:
Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 30 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-JMJD2D primary antibody (NBP1-03357) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 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 manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-03357

NB800-PC9	HeLa Nuclear Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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