

Datasheet for 600-401-X45**JMJD2A Antibody****Overview**

Description:	Anti-JMJD2A (RABBIT) Antibody - 600-401-X45
Item No.:	600-401-X45
Size:	50 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	JMJD2a, belongs to the JMJD2 family of histone demethylases which play an important role in the establishment of the histone code. JMJD2a specifically demethylates the trimethylated K9 and K36 of histone H3, thereby converting these lysines to the dimethylated form. It has no activity towards H3K4, H3K27 and H4K20, or to the mono- and dimethylated H3K9 and H3K36. JMJD2a plays a role in the transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively. Anti-JMJD2a Antibody is ideal for research in Chromatin Remodeling, Gene Expression and Epigenetics.
Synonyms:	Lysine-specific demethylase 4A, JmjC domain-containing histone demethylation protein 3A, Jumonji domain-containing protein 2A, JHDM3A, JMJD2, KIAA0677
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	KDM4A
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-JMJD2a Antibody was produced in rabbits by repeated immunizations with a synthetic peptide from human JMJD2a containing a sequence from the internal part of the protein.

Purity/Specificity:	Anti-JMJD2a Antibody was purified by affinity purification. Cross reactivity with other species was not tested.
Relevant Links:	• UniProtKB - O75164 • GeneID - 9682 • NCBI - NP_055478.2

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-JMJD2a Antibody is tested for ELISA and Western Blots. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 121 kDa in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100 - 1:500
WB:	1:500

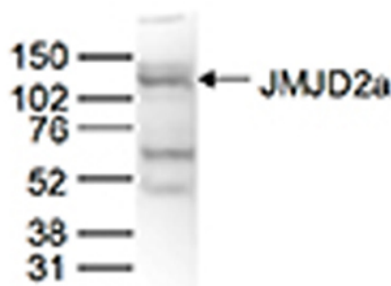
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.66 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.05% (w/v) Sodium Azide and 0.05% ProClin 300
Stabilizer:	None

Shipping & Handling

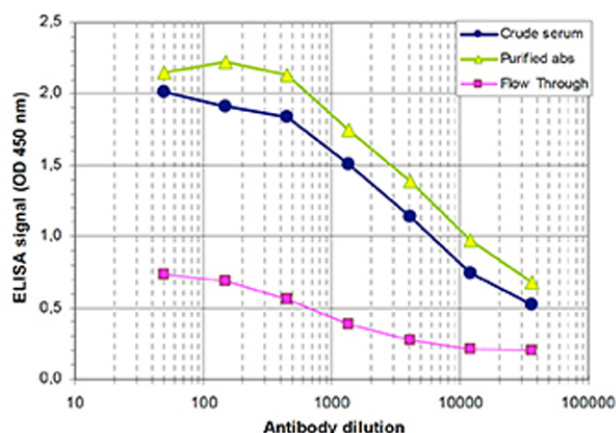
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis using Anti-JMJD2a antibody. Nuclear extracts from HeLa cells (40 µg) were analysed by Western blot using Anti-JMJD2a diluted 1:500 in TBS-Tween containing 5% skimmed milk. The position of the protein of interest is indicated on the right (expected size 121 kDa); the marker (in kDa) is shown on the left.



ELISA

Determination of the antibody titer of JMJD2a. To determine the titer of the antibody, an ELISA was performed using a serial dilution of human JMJD2a, crude serum and flow through. The plates were coated with the peptide used for immunization of the rabbit. By plotting the absorbance against the antibody dilution, the titer of the antibody was estimated to be 1:9,000.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.