

Datasheet for 600-401-CB9**JMJD4 Antibody****Overview**

Description:	Anti-JMJD4 (RABBIT) Antibody - 600-401-CB9
Item No.:	600-401-CB9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	The jumonji domain-containing protein (JMJD) family is defined by the presence of the JmjC domain that is observed in several diverse species. While several JMJD proteins have been identified as being involved in chromatin regulation, histone demethylation and development, the JMJD4 has not been identified. JMJD4 is expressed in multiple tissues and At least three isoforms of JMJD4 are known to exist.
Synonyms:	JMJD4 Antibody, JmjC domain-containing protein 4, Jumonji domain-containing protein 4
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	JMJD4
Reactivity:	Human, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-JMJD4 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human JMJD4.
Purity/Specificity:	Anti-JMJD4 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody will not recognize other members of the JMJD family.

Relevant Links:	• UniProtKB - Q9H9V9 • GeneID - 65094 • NCBI - NP_075383
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Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-JMJD4 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 52 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	5 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

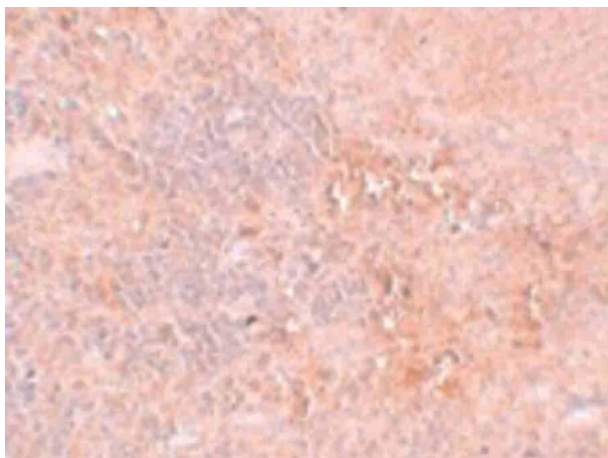
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

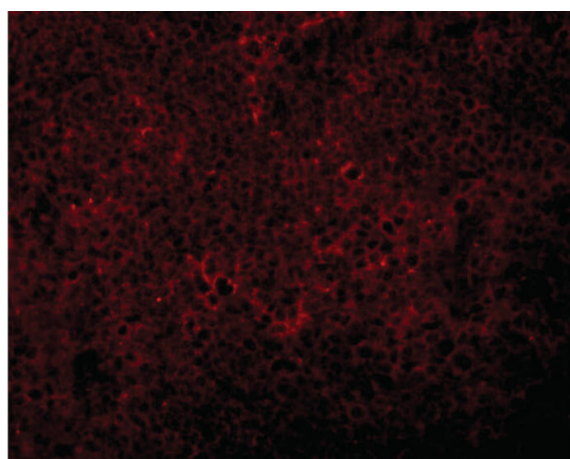
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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



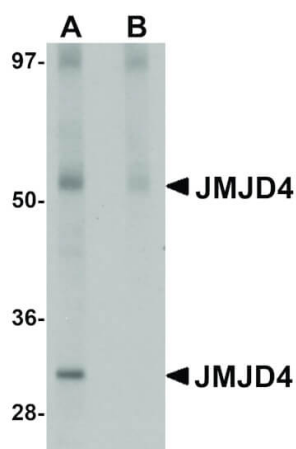
Immunohistochemistry

Immunohistochemistry of JMJD4 antibody. Tissue: rat spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: JMJD4 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: JMJD4 as precipitated brown signal with purple counterstain.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of JMJD4 antibody. Tissue: rat spleen tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: JMJD4 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: JMJD4 as red fluorescent signal.



Western Blot

Western Blot of JMJD4 antibody. Lane 1: human spleen tissue lysate with JMJD4 antibody at 1 µg/mL in the absence of blocking peptide. Lane 2: human spleen tissue lysate with JMJD4 antibody at 1 µg/mL in the presence of blocking peptide. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 52 kDa, 52 kDa for JMJD4. Other band(s): JMJD4 splice variants and isoforms.

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.