



Product datasheet

Anti-KDM5C / Jarid1C / SMCX antibody ab190180

[2 References](#) [3 Images](#)

Overview

Product name	Anti-KDM5C / Jarid1C / SMCX antibody
Description	Rabbit polyclonal to KDM5C / Jarid1C / SMCX
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP
Species reactivity	Reacts with: Mouse, Rat, Chicken, Human
Immunogen	Recombinant fragment corresponding to Human KDM5C/ Jarid1C/ SMCX aa 1000-1350. Isoform 4. Database link: P41229-4
	 Run BLAST with  Run BLAST with
Positive control	U2OS cells transfected with KDM5C / Jarid1C / SMCX siRNA, U2OS, mouse embryo fibroblasts (MEFs), rat INS1 and chicken DT40 cell lysates. U2OS cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.05% Sodium azide
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab190180 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/2000.
WB		1/2000. Predicted molecular weight: 175 kDa.
IP		Use at an assay dependent concentration.

Target

Function

Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. Participates in transcriptional repression of neuronal genes by recruiting histone deacetylases and REST at neuron-restrictive silencer elements.

Tissue specificity

Expressed in all tissues examined. Highest levels found in brain and skeletal muscle.

Involvement in disease

Defects in KDM5C are the cause of mental retardation syndromic X-linked JARID1C-related (MRXSJ) [MIM:300534]. MRXSJ is characterized by significantly sub-average general intellectual functioning associated with impairments in adaptative behavior and manifested during the developmental period. MRXSJ patients manifest mental retardation associated with variable features such as slowly progressive spastic paraplegia, seizures, facial dysmorphism.

Sequence similarities

Belongs to the JARID1 histone demethylase family.
Contains 1 ARID domain.
Contains 1 JmjC domain.
Contains 1 JmjN domain.
Contains 2 PHD-type zinc fingers.

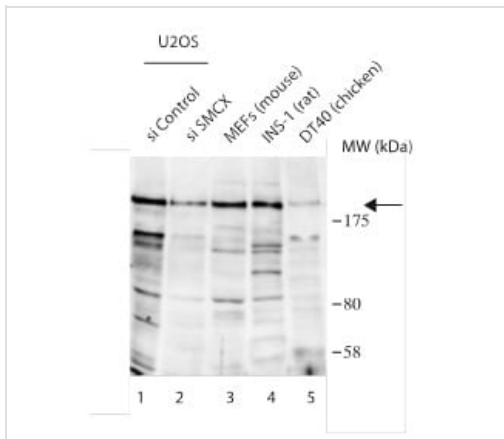
Domain

The first PHD-type zinc finger domain recognizes and binds H3-K9Me3.
Both the JmjC domain and the JmjN domain are required for enzymatic activity.

Cellular localization

Nucleus.

Images



Western blot - Anti-KDM5C / Jarid1C / SMCX antibody (ab190180)

All lanes : Anti-KDM5C / Jarid1C / SMCX antibody (ab190180) at 1/2000 dilution

Lane 1 : Human U2OS cell lysate

Lane 2 : Human U2OS cells transfected with KDM5C / Jarid1C / SMCX siRNA

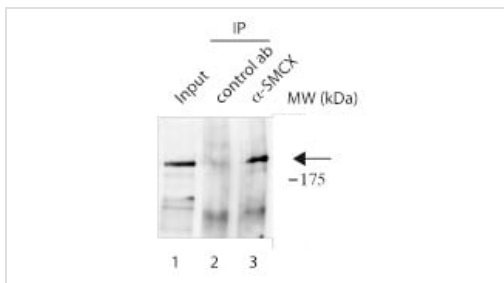
Lane 3 : Mouse embryo fibroblasts (MEFs)

Lane 4 : Rat INS1 cell lysate

Lane 5 : Chicken DT40 cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 175 kDa



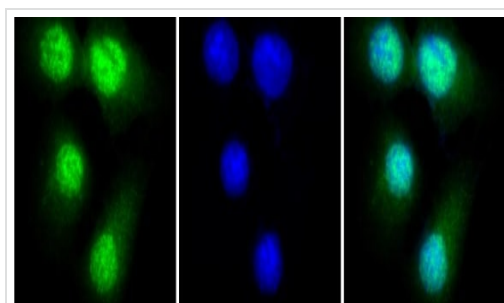
Immunoprecipitation - Anti-KDM5C / Jarid1C / SMCX antibody (ab190180)

Western blot analysis with ab190180 of immunoprecipitated U2OS cells extracts:

Lane 1: Input.

Lane 2: Immunoprecipitation with control serum.

Lane 3: Immunoprecipitation with ab190180 (5 µL)



Immunocytochemistry/ Immunofluorescence - Anti-KDM5C / Jarid1C / SMCX antibody (ab190180)

Immunofluorescence analysis of U2OS cells labeling KDM5C / Jarid1C / SMCX using ab190180 at a 1/2000 dilution.

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