abcam

Product datasheet

Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal ab190181

1 References 4 Images

Overview

Product name	Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal
Description	Rabbit polyclonal to KDM5C / Jarid1C / SMCX - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** IP, ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Rat, Chicken, Human, Xenopus laevis
Immunogen	Recombinant fragment corresponding to Human KDM5C/ Jarid1C/ SMCX aa 1-250. Isoform 4. Sequence: MEPGSDDFLPPPECPVFEPSWAEFRDPLGYIAKIRPIA EKSGICKIRPPA IVVEEGGYEAICKDRRWARVAQRLNYPPGKNIGSLLRS HYERIVYPYEMY QSGANLVQCNTRPFDNEEKDKEYKPHSIPLRQSVQPS KFNSYGRRAKRLQ PDPEPTEEDIEKNPELKKLQIYGAGPKMMGLGLMAKD KTLRKKDKEGPEC PPTVVVKEELGGDVKVESTSPKTFLESKEELSHSPEP CTKMTMRLRRNHS Database link: P41229-4 Run BLAST with Run BLAST with
Positive control	U2OS cell lysate transfected with KDM5C / Jarid1C / SMCX siRNA, U2OS, mouse embryo fibroblasts (MEFs), rat INS1 and chicken DT40 cell lysates.

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

Our Abpromise guarantee covers the use of **ab190181** in the following tested applications.

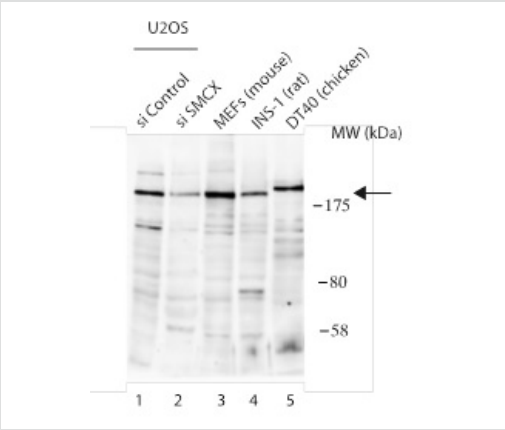
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

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



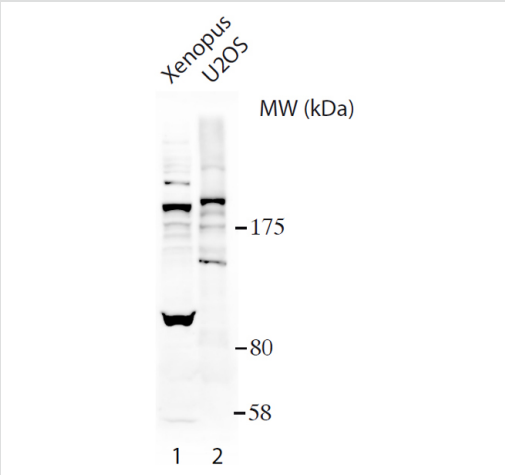
Western blot - Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal (ab190181)

All lanes : Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal (ab190181) at 1/2000 dilution

Lane 1 : Human U2OS cell lysate
Lane 2 : Human U2OS cell lysate transfected with KDM5C / Jarid1C / SMCX siRNA
Lane 3 : Mouse embryo fibroblasts (MEFs) cell lysate
Lane 4 : Rat INS1 cell lysate
Lane 5 : Chicken DT40 cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 175 kDa



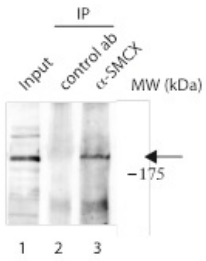
Western blot - Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal (ab190181)

All lanes : Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal (ab190181) at 1/2000 dilution

Lane 1 : Xenopus laevis crude egg extracts
Lane 2 : U2OS whole cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 175 kDa



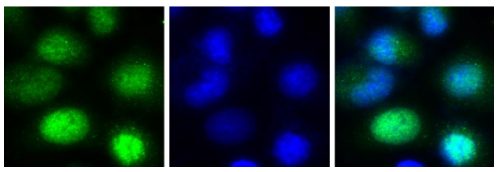
Immunoprecipitation - Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal (ab190181)

Western blot analysis using ab190181 of immunoprecipitated U2OS cells extracts:

Lane 1: Input.

Lane 2: Immunoprecipitation with control serum.

Lane 3: Immunoprecipitation with ab190181 (5 µL)



Immunocytochemistry/ Immunofluorescence - Anti-KDM5C / Jarid1C / SMCX antibody - N-terminal (ab190181)

Immunofluorescence analysis of U2OS cells labeling KDMC / Jarid1C / SMCX (green) using ab190181 at a 1/2000 dilution. Nuclei were stained with DAPI (blue).

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