

**Anti-KDM5C / Jarid1C / SMCX Antibody**  
**Human Monoclonal Antibody**  
**Catalog # ABV12039****Specification**

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**Anti-KDM5C / Jarid1C / SMCX Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB                     |
| Primary Accession | <a href="#">P41229</a> |
| Reactivity        | Human                  |
| Host              | Human                  |
| Clonality         | Monoclonal             |
| Isotype           | Mouse IgG2a            |

**Anti-KDM5C / Jarid1C / SMCX Antibody - Additional Information****Gene ID** 8242**Application & Usage****WB: HeLa, 293, T\$7D, MCF7 cell lysates; IF: HeLa cells****Other Names**

MRXJ, SMCX, MRXSJ, XE169, MRXSCJ, JARID1C, DXS1272E, Lysine-specific demethylase 5C, Jumonji/ARID domain-containing protein 1C

**Target/Specificity**

KDM5C

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

In buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

**Background Descriptions****Precautions**

Anti-KDM5C / Jarid1C / SMCX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Anti-KDM5C / Jarid1C / SMCX Antibody - Protein Information

**Name** KDM5C ([HGNC:11114](#))

### Function

Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code (PubMed:<a href="http://www.uniprot.org/citations/28262558" target="\_blank">28262558</a>). 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. Represses the CLOCK-BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2 (By similarity).

### Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00355, ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:17468742}

### Tissue Location

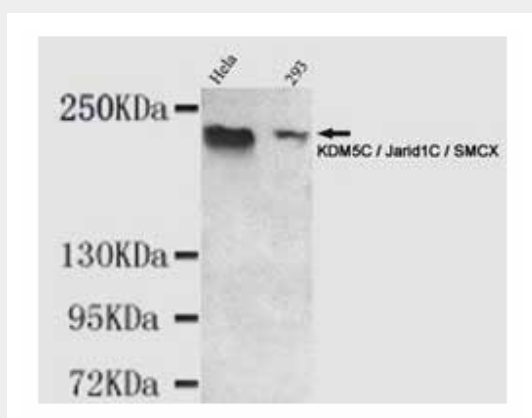
Expressed in all tissues examined. Highest levels found in brain and skeletal muscle.

## Anti-KDM5C / Jarid1C / SMCX Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## Anti-KDM5C / Jarid1C / SMCX Antibody - Images



Western blot detection of KDM5C / Jarid1C / SMCX in HeLa and 293 cell lysates using KDM5C / Jarid1C / SMCX mouse mAb (1:1000 diluted)

## Anti-KDM5C / Jarid1C / SMCX Antibody - Background

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. Represses the CLOCK-ARNTL/BMAL1 heterodimer-mediated transcriptional activation of the core clock component PER2