10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KDM5C / Jarid1C / SMCX Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP53266

Specification

KDM5C / Jarid1C / SMCX Antibody - Product Information

Application	**WB, ICC**
Primary Accession	P41229
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a**
Calculated MW	**220 KDa**

KDM5C / Jarid1C / SMCX Antibody - Additional Information

Gene ID 8242

Other Names
DXS1272E;Histone demethylase JARID1C;JARID1C;JmjC domain containing protein SMCX;Jumonji AT rich interactive domain 1C;Jumonji, AT rich interactive domain 1C (RBP2 like); Jumonji/ARID domain-containing protein 1C;KDM5C;KDM5C_HUMAN;Lysine (K) specific demethylase 5C;Lysine-specific demethylase 5C;MRXJ;MRXSCJ;MRXSJ;Protein SmcX;Protein Xe169;rbp2 like protein;Selected cDNA on X;SMCX;Smcx homolog X chromosome;SmcX protein; SmcX protein;Smcy homolog X linked;XE169;Xe169 protein;Xe169 protein.

Dilution
WB~~1:1000
ICC~~1:150

Format
Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.09% (W/V) sodium azide, 50%,glycerol

Storage
Store at -20 °C.Stable for 12 months from date of receipt

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:28262558). 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}

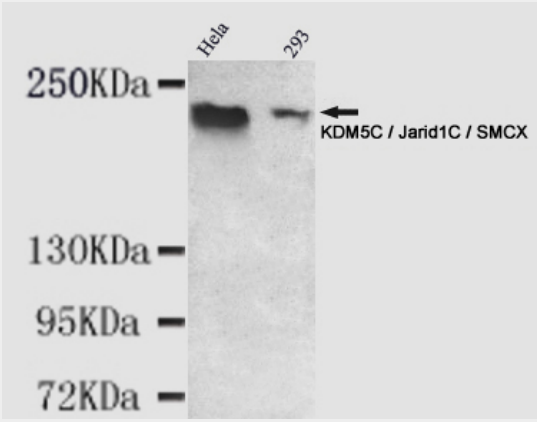
Tissue Location
Expressed in all tissues examined. Highest levels found in brain and skeletal muscle.

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 Cytomety
- Cell Culture

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).Predicted band size: 176KDa.Observed band size: 220KDa.

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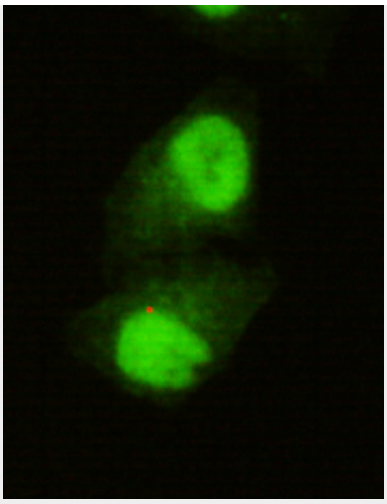

Immunocytochemistry of HeLa cells using anti-KDM5C / Jarid1C / SMCX mouse mAb diluted 1:150.

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 (By similarity).

KDM5C / Jarid1C / SMCX Antibody - References

Wu J.,et al.Hum. Mol. Genet. 3:153-160(1994).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Ross M.T.,et al.Nature 434:325-337(2005).
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Agulnik A.I.,et al.Hum. Mol. Genet. 3:879-884(1994).