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Anti-KDM5C / Jarid1C / SMCX Antibody

Human Monoclonal Antibody
Catalog # ABV12039

Product Information

Application	WB, IF
Primary Accession	P41229
Reactivity	Human
Host	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Names	2E4-E1-G8
Calculated MW	175720

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.

Protein Information

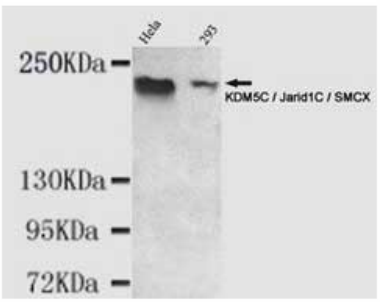
Name	KDM5C (HGNC:11114)
Function	Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code (PubMed:28262558). Does not demethylate histone H3 'Lys-9', H3 'Lys- 27', H3 'Lys-36', H3 'Lys-79' or H4

	'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.

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

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.