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

Jarid1C Rabbit pAb

Catalog # AP98555

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P41229
Other Accession	P41229
Reactivity	Human
Predicted	Rat, Pig, Mouse, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	175720
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Jarid1C
Epitope Specificity	1051-1150/1560
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	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.
SUBUNIT	Part of two distinct complexes, one containing E2F6, and the other containing REST.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene is a member of the SMCY homolog family and encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. The DNA-binding motifs suggest this protein is involved in the regulation of transcription and chromatin remodeling. Mutations in this gene have been associated with X-linked mental retardation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]

Additional Information

Gene ID	8242
Other Names	DXS1272E; JARID1C; MRX13; MRXJ; MRXS16; MRXSCJ; MRXSJ; SMCX; XE169; KDM5C_HUMAN; KDM5C; Histone demethylase JARID1C; Jumonji/ARID domain-containing protein 1C; Protein SmcX; Protein Xe169; [histone H3]-trimethyl-L-lysine(4) demethylase 5C; 1.14.11.67; lysine demethylase 5C; Jumonji, AT rich interactive domain 1C (RBP2-like); Smcy homolog, X-linked (mouse); jumonji, AT rich interactive domain 1C; mental retardation, X-linked 13; lysine (K)-specific demethylase 5C
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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