



KDM5C/Jarid1C/SMCX mouse mAb

Catalog No	YP-Ab-01060
Isotype	IgG
Reactivity	Human
Applications	WB;ICC
Gene Name	kdm5c
Immunogen	Purified recombinant human KDM5C / Jarid1C / SMCX protein fragments expressed in E.coli
Specificity	This antibody detects endogenous levels of KDM5C / Jarid1C / SMCX and does not cross-react with related proteins
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000 icc 1:150
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	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;MRX13;MRXJ;MRXSCJ;MRXSJ;Protein SmcX;Protein Xe169;rbp2 like protein;Selected cDNA on X;SMCX;Smcx homolog X chromosome;SmcX protein;Smcy homolog X linked;XE169;Xe169 protein;KDM5C/Jarid1C/SMCX;Xe169 protein.
Observed Band	220kD
Calculated Molecular Weight	220kD
Cell Pathway	Nucleus .
Tissue Specificity	Expressed in all tissues examined. Highest levels found in brain and skeletal muscle.
Function	cofactor:Alpha-ketoglutarate.,cofactor:Fe(2+).,disease:Defects in KDM5C are a cause of X-linked mental retardation (XLMR) [MIM:300534]. Mental retardation is usually defined as cognitive impairment with an IQ less than 70. Etiologically, mental retardation is a very heterogeneous condition that involves



environmental, stochastic and/or genetic factors.,domain:Both the JmjC domain and the JmjN domain are required for enzymatic activity.,domain:The first PHD-type zinc finger domain recognizes and binds H3-K9Me3.,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 hist

Background

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],

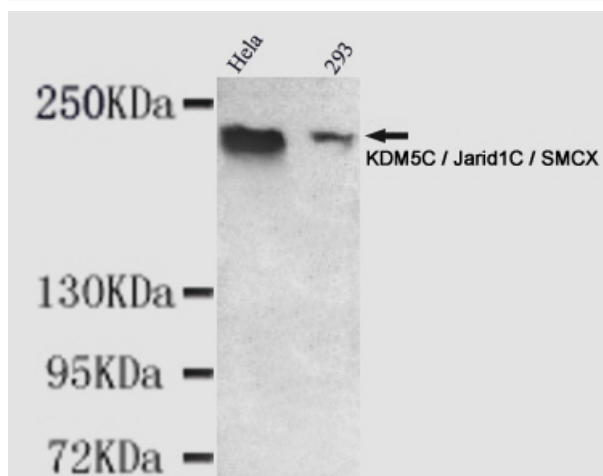
matters needing attention

Avoid repeated freezing and thawing!

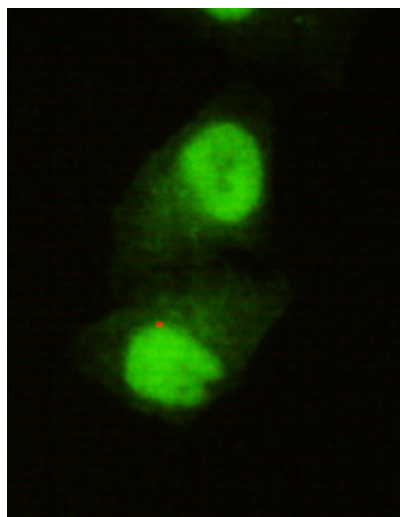
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products 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.



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