

**KDM5C/Jarid1C/SMCX mouse mAb**

<b>Catalog No :</b>	YM1201
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB;ICC
<b>Target :</b>	KDM5C/Jarid1C/SMCX
<b>Gene Name :</b>	kdm5c
<b>Human Gene Id :</b>	8242
<b>Human Swiss Prot No :</b>	P41229
<b>Mouse Swiss Prot No :</b>	P41230
<b>Immunogen :</b>	Purified recombinant human KDM5C / Jarid1C / SMCX protein fragments expressed in E.coli
<b>Specificity :</b>	This antibody detects endogenous levels of KDM5C / Jarid1C / SMCX and does not cross-react with related proteins
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb 1:1000 icc 1:150
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	220kD
<b>Background :</b>	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],

**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

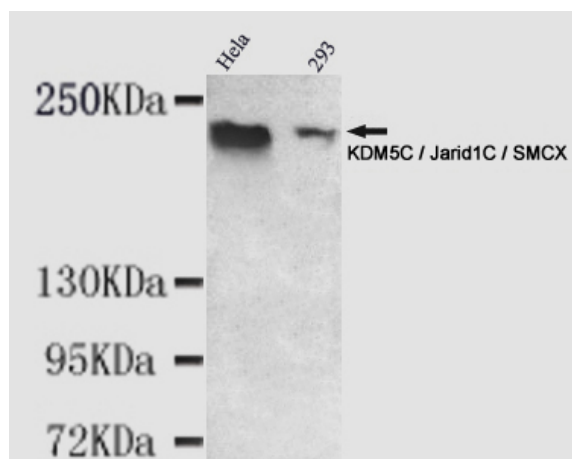
**Subcellular Location :**

Nucleus .

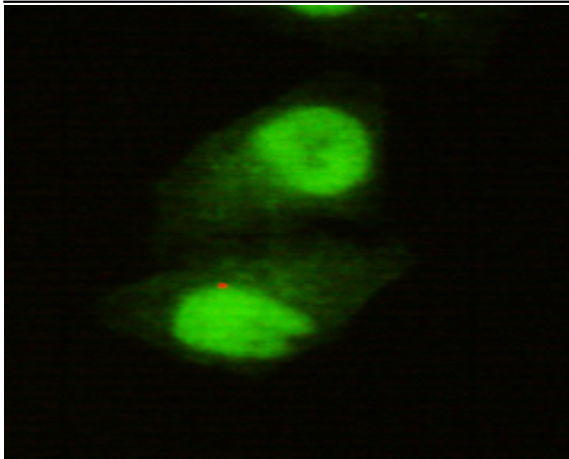
**Expression :**

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

## 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.