Best Tools for immunology Research

SmcX Monoclonal Antibody

Catalog No :	YM1096
Reactivity :	Human;Mouse;Rat;Bovine;Dog
Applications :	WB;IF
Target :	SmcX
Gene Name :	KDM5C
Protein Name :	Lysine-specific demethylase 5C
Human Gene Id :	8242
Human Swiss Prot No :	P41229
Mouse Gene Id :	20591
Mouse Swiss Prot No :	P41230
Immunogen :	Purified recombinant human SmcX (C-terminus) protein fragments expressed in E.coli.
Specificity :	SmcX Monoclonal Antibody detects endogenous levels of SmcX protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:1000 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications.
Purification :	Affinity purification
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 176kD

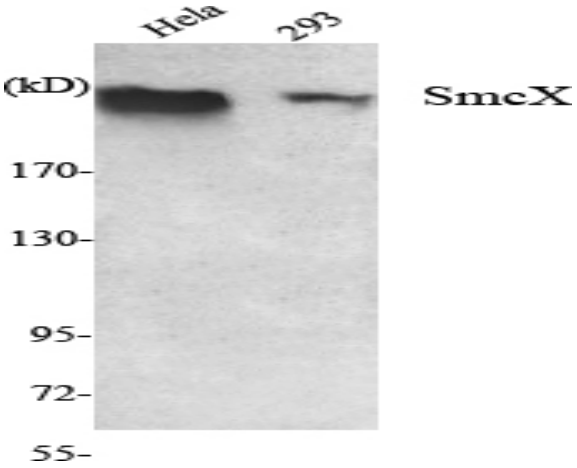
Background : This gene is a member of the SMCY homolog family and encodes a protein with one ARID domain, one JmjC domain, one JmjN domain and two PHD-type zinc fingers. The DNA-binding motifs suggest this protein is involved in the regulation of transcription and chromatin remodeling. Mutations in this gene have been associated with X-linked mental retardation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009],

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

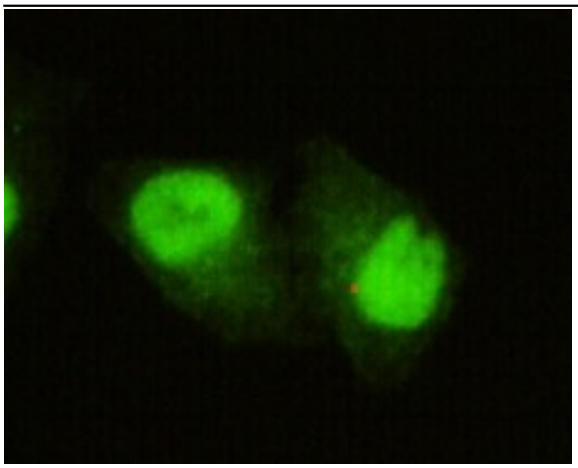
Subcellular Location : Nucleus .

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

Products Images



Western Blot analysis using SmcX Monoclonal Antibody against HeLa, 293 cell lysate.



Immunofluorescence analysis of HeLa cells using SmcX Monoclonal Antibody.