

For Research Use Only

KDM1 Monoclonal antibody

Catalog Number: 67037-1-Ig **1 Publications**



Basic Information

Catalog Number: 67037-1-Ig	GenBank Accession Number: BC040194	Purification Method: Protein G purification
Size: 150ul , Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23028	CloneNo.: 2F10A12
Source: Mouse	Full Name: lysine (K)-specific demethylase 1	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:500-1:2000
Isotype: IgG1	Calculated MW: 876 aa, 95 kDa	
Immunogen Catalog Number: AG14778	Observed MW: 110 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

Human, Mouse, Rat

Cited Species:

human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, HeLa cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, RAW 264.7 cells, HepG2 cells, PC-12 cells, 4T1 cells

IHC : human colon cancer tissue, human lung cancer tissue, human liver cancer tissue, human prostate cancer tissue

Background Information

Lysine specific demethylase 1 (LSD1/BHC110/KIAA0601/p110b/AOF2/KDM1) is an amine oxidase that catalyzes histone demethylation via a flavin adenine dinucleotide (FAD)-dependent oxidative reaction (PMID:19703393). This protein belongs to the flavin monoamine oxidase family. Its structure and function is conserved from yeast to human and it is typically associated to CoREST, a corepressor protein, and histone deacetylases HDAC1 and HDAC2. Human LSD1 consists of 852 amino acids and comprises an N-terminal SWIRM domain, involved in protein interactions, and a C-terminal amine oxidase domain, which contains an insertion that forms the CoREST interacting site (the so-called tower domain) (PMID:20164337). It has 2 isoforms produced by alternative splicing with the calculated molecular mass of 93-95 kDa and apparent molecular mass of 110 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Yanhua Pu	33811891	Life Sci	WB

Storage

Storage:

Store at -20°C.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

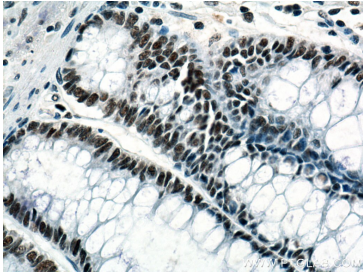
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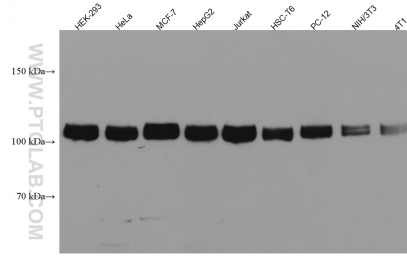
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 67037-1-Ig (KDM1 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 67037-1-Ig (KDM1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.