For Research Use Only

KDM1 Monoclonal antibody

Catalog Number:67037-1-Ig 3 Publications

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Basic Information

Catalog Number:
67037-1-Ig

Size:
150ul , Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG14778

GenBank Accession Number:
BC040194

GeneID (NCBI):
23028

UNIPROT ID:
O60341

Full Name:
lysine (K)-specific demethylase 1

Calculated MW:
876 aa, 95 kDa

Observed MW:
110 kDa

Purification Method:
Protein G purification

CloneNo.:
2F10A12

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:500-1:2000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IF

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
Febri Gunawan Sugiokto	42283463	J Virol	
Febri Gunawan Sugiokto	42124621	bioRxiv	IF

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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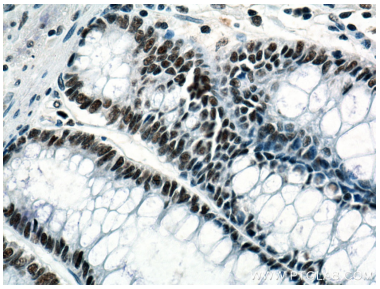
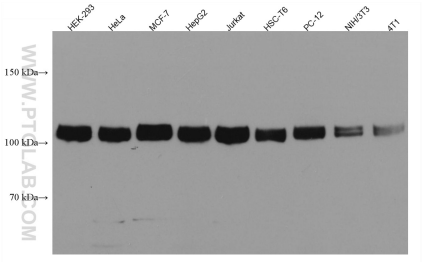
Selected Validation Data



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.