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Rabbit Anti-HDAC6 antibody

SLM-52086R

Product Name	HDAC6
Chinese Name	组蛋白去乙酰化酶 6Recombinant rabbit monoclonal anti
Alias	HD 6; HD6; HDAC 6; Histone deacetylase 6; HD6; Histone deacetylase 6; JM 21; JM21; KIAA0901; FLJ16239; HDAC6_HUMAN.
Research Area	Tumour Developmental biology Signal transduction Apoptosis transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Monoclonal
Clone NO.	6B4
React Species	Human,
Applications	WB=1:500-5000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:50-200,IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	134kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	Recombinant human HDAC6 protein, around C-terminal 150aa
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed

Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha family. It contains an internal duplication of two catalytic domains which appear to function independently of each other. This protein possesses histone deacetylase activity and represses transcription. [provided by RefSeq, Jul 2008].

Product Detail

Function:
Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Plays a central role in microtubule-dependent cell motility via deacetylation of tubulin.
In addition to its protein deacetylase activity, plays a key role in the degradation of misfolded proteins: when misfolded proteins are too abundant to be degraded by the chaperone refolding system and the ubiquitin-proteasome, mediates the transport of misfolded proteins to a cytoplasmic juxtanuclear structure called aggresome. Probably acts as an adapter that recognizes polyubiquitinated misfolded proteins and target them to the aggresome, facilitating their clearance by autophagy.

Subunit:
Interacts with CBFA2T3, HDAC11 and SIRT2. Interacts with F-actin. Interacts with BBIP10. Under proteasome impairment conditions, interacts with UBD via its histone deacetylase 1 and UBP-type zinc-finger regions. Interacts with CYLD. Interacts with ZMYND15 (By similarity). Interacts with DDIT3/CHOP.

Subcellular Location:
Nucleus. Cytoplasm. Note=It is mainly cytoplasmic, where it is associated with microtubules.

Post-translational modifications:
Phosphorylated by AURKA.
Ubiquitinated. Its polyubiquitination however does not lead to its degradation.
Sumoylated in vitro.

Similarity:
Belongs to the histone deacetylase family. HD type 2 subfamily.
Contains 1 UBP-type zinc finger.

SWISS:
Q9UBN7

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Gene ID:
10013

Database links:

Entrez Gene: 10013 Human

Entrez Gene: 15185 Mouse

Entrez Gene: 84581 Rat

Omim: 300272 Human

SwissProt: Q9UBN7 Human

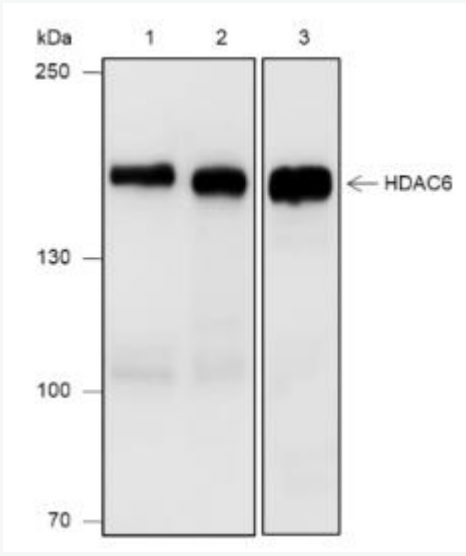
SwissProt: Q9Z2V5 Mouse

Unigene: 6764 Human

Unigene: 29854 Mouse

Unigene: 13453 Rat

Product Picture



Blocking buffer: 5% NFDM/TBST

Primary Ab dilution: 1:1000

Primary Ab incubation condition: 2 hours at

room temperature

Secondary Ab: Goat Anti-Rabbit IgG H&L

(HRP)

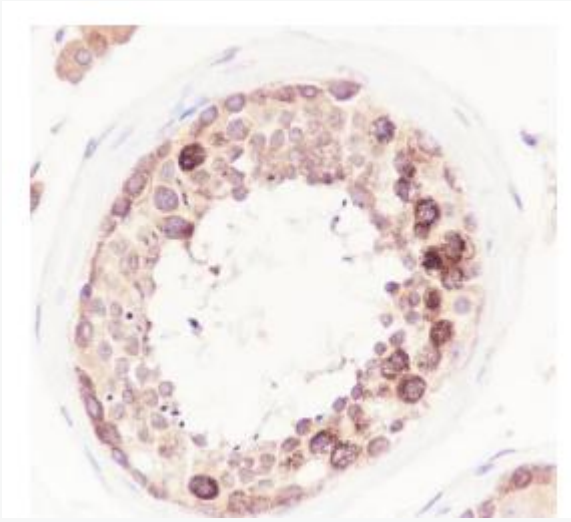
Lysate: 1: HeLa, 2: COS-7, 3: K562

Protein loading quantity: 20 μg

Exposure time: 60 s

Predicted MW: 131 kDa

Observed MW: 160 kDa



Tissue: Human testis

Section type: Formalin-fixed & Paraffin

-embedded section

Retrieval method: High temperature and high

pressure

Retrieval buffer: Tris/EDTA buffer, pH 9.0

Primary Ab dilution: 1:50

Primary Ab incubation condition: 1 hour at

room temperature

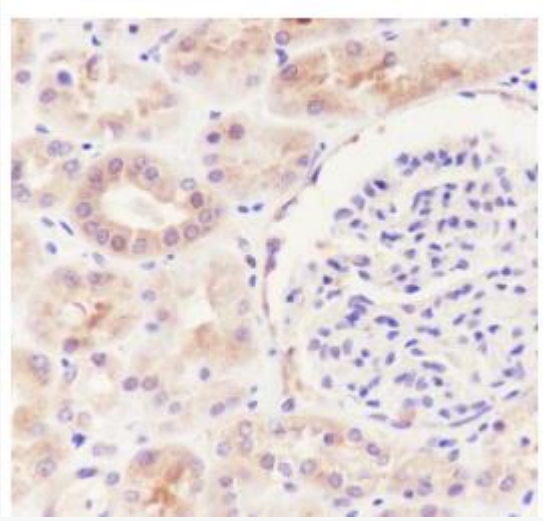
Secondary Ab: Anti-Rabbit and Mouse

Polymer HRP (Ready to use)

Counter stain: Hematoxylin (Blue)

Comment: Color brown is the positive signal for

SLM-52086R



Tissue: Human kidney

Section type: Formalin-fixed & Paraffin

-embedded section

Retrieval method: High temperature and high

pressure

Retrieval buffer: Tris/EDTA buffer, pH 9.0

Primary Ab dilution: 1:50

Primary Ab incubation condition: 1 hour at

room temperature

Secondary Ab: Anti-Rabbit and Mouse

Polymer HRP (Ready to use)

Counter stain: Hematoxylin (Blue)

Comment: Color brown is the positive signal for

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