



Rabbit Anti-phospho-HDAC8 (Ser39) antibody

SL3127R

Product Name:	phospho-HDAC8 (Ser39)
Chinese Name:	磷酸化组蛋白去乙酰化酶8抗体
Alias:	HDAC8 (Phospho-Ser39); HDAC8 (Phospho S39); HD 8; HD8; HDAC 8; HDACL 1; HDACL1; Histone deacetylase 8; Histone deacetylase like 1; RPD 3; RPD3; CDA07; Hdac8; HDAC8_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,Guinea Pig,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	42kDa
Cellular localization:	The nucleuseytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human HDAC8 around the phosphorylation site of Ser39:RA(p-S)MV
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009]

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. May play a role in smooth muscle cell contractility.

Subunit:

Interacts with PEPB2-MYH11, a fusion protein consisting of the 165 N-terminal residues of CBF-beta (PEPB2) with the tail region of MYH11 produced by the inversion Inv(16)(p13q22), a translocation associated with acute myeloid leukemia of M4EO subtype. The PEPB2-MYH11 fusion protein also interacts with RUNX1, a well known transcriptional regulator, suggesting that the interaction with HDAC8 may participate in the conversion of RUNX1 into a constitutive transcriptional repressor. Interacts with CBFA2T3. Interacts with phosphorylated SMG5/EST1B; this interaction protects SMG5 from ubiquitin-mediated degradation. Associates with alpha-SMA (smooth muscle alpha-actin).

Subcellular Location:

Nucleus. Cytoplasm. Excluded from the nucleoli. Found in the cytoplasm of cells showing smooth muscle differentiation.

Tissue Specificity:

Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

Post-translational modifications:

Phosphorylated by PKA on serine 39. Phosphorylation reduces deacetylase activity observed preferentially on histones H3 and H4.

Similarity:

Belongs to the histone deacetylase family. HD type 1 subfamily.

SWISS:

Q9BY41

Gene ID:

55869

Database links:

[Entrez Gene: 55869](#)Human

[Entrez Gene: 70315](#)Mouse

[Entrez Gene: 363481](#)Rat

[Omim: 300269](#)Human

[SwissProt: Q9BY41](#)Human

[SwissProt: Q8VH37](#)Mouse

[SwissProt: B1WC68](#)Rat

[Unigene: 310536](#)Human

[Unigene: 328128](#)Mouse

[Unigene: 208476](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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