

## HDAC8 (Phospho Ser39) Rabbit pAb

CatalogNo: YP0127

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 42kD (Calculated)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-1:2000**

**IHC 1:100-1:300**

**ELISA 1:20000**

**IF 1:50-200**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human HDAC8 around the phosphorylation site of Ser39. AA range: 5-54

## Specificity

Phospho-HDAC8 (S39) Polyclonal Antibody detects endogenous levels of HDAC8 protein only when phosphorylated at S39. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RASMV

## Target Information

**Gene name** HDAC8

**Protein Name** Histone deacetylase 8

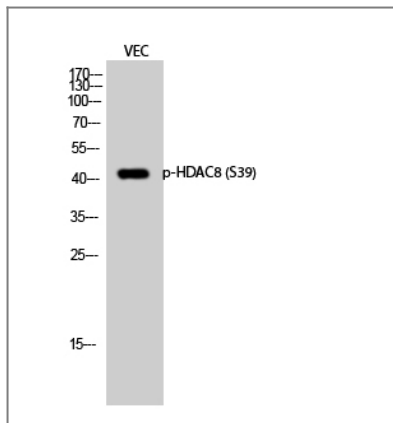
Organism	Gene ID	UniProt ID
Human	<a href="#">55869</a> ;	<a href="#">Q9BY41</a> ;
Mouse	<a href="#">70315</a> ;	<a href="#">Q8VH37</a> ;
Rat	<a href="#">363481</a> ;	<a href="#">B1WC68</a> ;

**Cellular Localization** Nucleus . Chromosome . Cytoplasm . Excluded from the nucleoli (PubMed:10748112). Found in the cytoplasm of cells showing smooth muscle differentiation (PubMed:15772115, PubMed:16538051). .

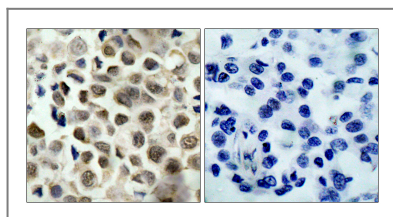
**Tissue specificity** Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

**Function** Catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.,Caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,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.,miscellaneous:Its activity is inhibited by trichostatin A (TSA) and butyrate, two well known histone deacetylase inhibitors.,similarity:Belongs to the histone deacetylase family. Type 1 subfamily.,subcellular location:Excluded from the nucleoli.,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.,tissue specificity:Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas.,

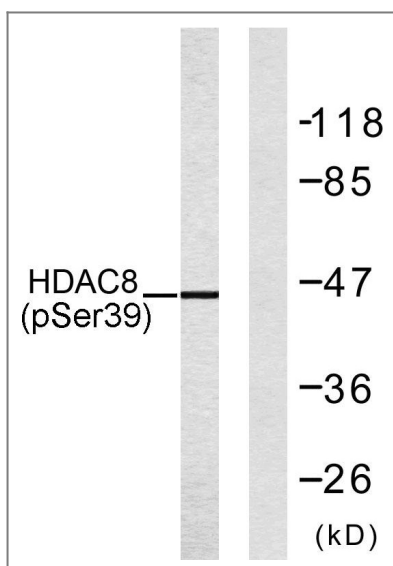
## Validation Data



Western Blot analysis of VEC cells using Phospho-HDAC8 (S39) Polyclonal Antibody diluted at 1:500



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using HDAC8 (Phospho-Ser39) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells, using HDAC8 (Phospho-Ser39) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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