

## HDAC7 (Phospho Ser155) Rabbit pAb

CatalogNo: YP0495

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA

#### MW

- 103kD (Observed)

#### 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**

**ELISA 1:40000**

**Not yet tested in other applications.**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human HDAC7A around the phosphorylation site of Ser155. AA range:121-170

**Specificity** Phospho-HDAC7 (S155) Polyclonal Antibody detects endogenous levels of HDAC7 protein only when phosphorylated at S155. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):TVsEP

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## | Target Information

**Gene name** HDAC7 HDAC7A

**Protein Name** Histone deacetylase 7

Organism	Gene ID	UniProt ID
Human	<a href="#">51564</a> ;	<a href="#">Q8WUI4</a> ;
Mouse	<a href="#">56233</a> ;	<a href="#">Q8C2B3</a> ;
Rat		<a href="#">Q99P96</a> ;

**Cellular Localization**

Nucleus. Cytoplasm. In the nucleus , it associates with distinct subnuclear dot-like structures. Shuttles between the nucleus and the cytoplasm. Treatment with EDN1 results in shuttling from the nucleus to the perinuclear region. The export to cytoplasm depends on the interaction with the 14-3-3 protein YWHAE and is due to its phosphorylation.

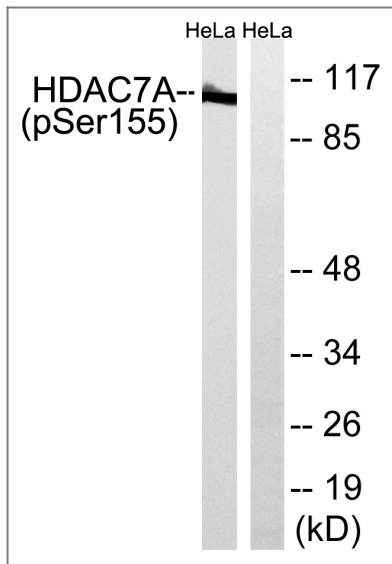
**Tissue specificity** B-cell ,Cervix carcinoma ,Colon ,Embryo ,Epithelium ,Human lung ,Placenta ,Spleen ,Teratoca

**Function**

Catalytic activity:Hydrolysis of an N (6) -acetyl-lysine residue of a histone to yield a deacetylated histone. ,Domain:The nuclear export sequence mediates the shuttling between the nucleus and the cytoplasm. ,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. Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A , MEF2B and MEF2C. During muscle differentiation , it shuttles into the cytoplasm , allowing the expression of myocyte enhancer factors (By similarity) . May be involved in Epstein-Barr virus (EBV) latency , possibly by repressing the viral BZLF1 gene. ,miscellaneous:Its activity is inhibited by Trichostatin A (TSA) , a known histone deacetylase inhibitor. ,PTM:May be phosphorylated by CaMK1. ,sequence Caution:Intron retention. ,similarity:Belongs to the histone deacetylase family. Type 2 subfamily. ,subcellular location:In the nucleus , it associates with distinct subnuclear dot-like structures. Shuttles between the nucleus and the cytoplasm. Treatment with EDN1 results in shuttling from the nucleus to the perinuclear region. The export to cytoplasm depends on the interaction with the 14-3-3 protein YWHAE and may be due to its phosphorylation. ,subunit:Interacts with HDAC1 , HDAC2 , HDAC3 , HDAC4 , HDAC5 , NCOR1 , NCOR2 , SIN3A , SIN3B , RBBP4 , RBBP7 , MTA1L1 , SAP30 and MBD3. Interacts with the 14-3-3 protein YWHAE , MEF2A , MEF2B and MEF2C (By similarity) . Interacts with HTATIP and EDNRA. Interacts with KDM5B. ,

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## | Validation Data



Western blot analysis of lysates from HeLa cells, using HDAC7A (Phospho-Ser155) Antibody. The lane on the right is blocked with the phospho peptide.

## Contact information

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**HDAC7 (Phospho Ser155) Rabbit pAb**

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