

HDAC5 (Phospho Ser498) (PT1439R) PT™ Rabbit mAb

CatalogNo: YM9281 **Recombinant** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IF, ELISA

MW

- 122kD (Calculated)
130kD (Observed)

Isotype

- IgG, Kappa

Storage

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

Formulation PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

Recommended Dilution Ratios

WB 1:2000-1:10000

IF 1:200-1:1000

ELISA 1:5000-1:20000

Basic Information

Clonality Monoclonal

Clone Number PT1439R

Immunogen Information

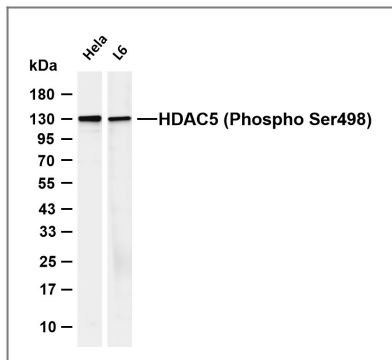
Immunogen The specific immunogen used to produce this antibody is proprietary information.

Specificity HDAC5 (Phospho Ser498) Antibody detects endogenous levels of HDAC5 protein only when phosphorylated at S498. 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 When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports.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):TQsSP

Target Information

Gene name	HDAC5		
Protein Name	Histone deacetylase 5		
	Organism	Gene ID	UniProt ID
	Human	10014 ;	Q9UQL6 ;
	Mouse		Q9Z2V6 ;
Cellular Localization	Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm. In muscle cells , it shuttles into the cytoplasm during myocyte differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-259 and Ser-498 by AMPK , CaMK1 and SIK1.		
Tissue specificity	Ubiquitous.		
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 MEF2C. During muscle differentiation , it shuttles into the cytoplasm , allowing the expression of myocyte enhancer factors. ,PTM:Phosphorylated by CaMK at Ser-259 and Ser-498. The phosphorylation is required for the export to the cytoplasm. ,PTM:Ubiquitinated. Polyubiquitination however does not lead to its degradation. ,similarity:Belongs to the histone deacetylase family. Type 2 subfamily. ,subcellular location:Shuttles between the nucleus and the cytoplasm. In muscle cells , it shuttles into the cytoplasm during myocyte differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-259 and Ser-498 by CaMK. ,subunit:Interacts with AHRR (By similarity) . Interacts with BCOR , HDAC7 , HDAC9 , CTBP1 , MEF2C , NCOR2 , NRIP1 , PHB2 and a 14-3-3 chaperone protein. Interacts with KDM5B. ,tissue specificity:Ubiquitous. ,		

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-HDAC5 (Phospho Ser498) (PT1439R) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: L6 Predicted band size: 122kDa Observed band size: 130kDa

Contact information

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PT™ Rabbit mAb

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