

## Histone Deacetylase 7 (HDAC7) Antibody

<b>CATALOG NO:</b>	3607-30T	30 µg (Trial size)
	3607-100	100 µg
<b>HOST:</b>	Rabbit	
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 921 of murine HDAC7 (ID# BV-79)	
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat	

### FORMULATION:

0.5 mg/ml affinity purified rabbit anti-HDAC7 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 5 mM EDTA and 0.03% proclin.

### STORAGE CONDITIONS:

Store at -20° C. For long-term storage, aliquot and freeze at -70° C. Avoid repeated freeze/thaw cycles.

### BACKGROUND:

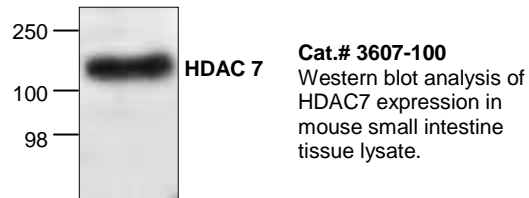
Human HDAC7 is composed of 912 amino acid residues. Although HDAC7 is localized mostly to the cell nucleus, it is also found in the cytoplasm, suggesting nucleo-cytoplasmic shuttling. The histone deacetylase activity of HDAC7 maps to a carboxy-terminal domain and is dependent on interaction with class I HDACs in the nucleus. HDAC7 catalyzes removal of acetyl-groups from acetyl-lysines of histones and promotes compaction of chromatin in these regions, leading to the inhibition of gene transcription.

### SPECIFICITY:

The antibody detects ~105 kDa HDAC7. Mouse small intestine tissue lysate can be used as a positive control. Blocking peptide (Cat.# 3607BP-50) is also available. The antibody does not recognize other members of the HDAC family.

### APPLICATION AND USAGE:

The antibody can be used in Western blotting (0.5-4 µg/ml). Based on researchers feedback, it can also be used in immunoprecipitation (20-40 µg/ml) and Immunohistochemistry (20-40 µg/ml). However, the optimal conditions should be determined individually.



**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

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- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

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- Senescence Detection Kit
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- CETP Activity Assay & Drug Discovery Kits
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- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
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#### Monoclonal and Polyclonal Antibodies