

## Histone Deacetylase 6 (HDAC6) Polyclonal Antibody

<b>CATALOG #:</b>	3606-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide mapping to the N-terminus of mouse HDAC-6 (ID# BV-48).
<b>REACTIVITY:</b>	human, mouse, rat

### FORMULATION:

100 µg (0.2 mg/ml) affinity purified rabbit anti-HDAC6 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

### STORAGE CONDITIONS:

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

### BACKGROUND:

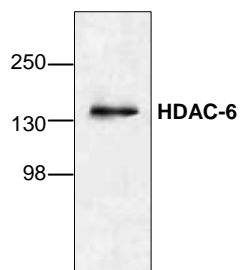
Human HDAC6 (1215 a.a. residues) possesses two separate putative catalytic domains, both of which are fully functional and contribute independently to the overall activity of HDAC6. A very potent NES is present at the amino-terminus of HDAC6, which was found to play an important role in regulating the shuttling of HDAC6 protein between cytoplasm and nucleus. The shuttling process may be a critical regulatory mechanism of HDAC6 function. HDAC6 may participate in coordinating expression of a group of genes involved in the remodeling of chromatin during cell differentiation.

### APPLICATION AND USAGE:

The antibody can be used in Western blotting (0.5-4 µg/ml). Based on researcher's feedback, the antibody can also be used in Immunohistochemistry (20 µg/ml). However, the optimal conditions should be determined individually.

### SPECIFICITY:

The antibody detects ~134 kDa HDAC-6. Jurkat cell lysate can be used as a positive control. The antibody does not cross-react with other HDAC proteins including HDAC1, 2, 3, 4, 5, 7, and 8. Blocking peptide (Cat.# 3606BP-50) is available separately.



**Cat. # 3606-100**  
Western blot analysis  
of HDAC-6 expression  
with Jurkat cell lysate.

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

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

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

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- Recombinant Adiponectin, Survivin, & Leptin
- CETP and PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit
- HDL and LDL/VLDL quantification kits

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- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies