

## Histone Deacetylase 5 (HDAC5) Polyclonal Antibody

<b>CATALOG #:</b>	3605-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<b>HOST:</b>	Rabbit
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 575 of human HDAC-5 (ID# BV-78)
<b>SPECIES REACTIVITY:</b>	human, mouse, rat

### FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit anti-HDAC5 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:

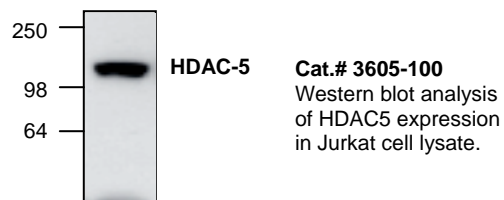
Human HDAC5 is composed of 1122 amino acid residues. The deacetylase domain of HDAC5 is located at the C-terminal half of the molecule. The N-terminal non-deacetylase domain does not show any significant homology with any published sequence. Both domains are required for HDAC5-mediated repression of gene transcription. HDAC5 interacts with a growing number of transcriptional factors including MEF2A as well as other HDAC proteins. The interacting complexes bind to specific regions of chromatin and regulate gene transcription in these regions.

### APPLICATION AND USAGE:

The antibody can be used for Western blotting (0.5-4 µg/ml). Based on researchers feedback, the antibody also works well in Immunoprecipitation (20 µg/ml), and Immunohistochemistry (20 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3605BP-50) is available separately.

### SPECIFICITY:

The antibody detects ~124 kDa histone deacetylase 5. It does not cross-react with other HDAC proteins including HDAC1, 2, 3, 4, 6, 7, and 8.



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