

# Product Data Sheet

## Purified anti-HDAC1

**Catalog # / Size:** 607401 / 50 µl (5 Western blots)

**Clone:** Poly6074

**Isotype:** Rabbit IgG

**Immunogen:** Synthetic peptides, a.a. 1-5, 433-448, and 467-482

**Reactivity:** Mouse, Human

**Preparation:** The antibody was purified by antigen-affinity chromatography.

**Formulation:** This antibody is provided in phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 50% glycerol.

**Storage:** Upon receipt, store frozen at -20° C.

## Applications:

**Applications:** WB, IF

**Recommended Usage:** Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a starting dilution of 1:100. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:** 1. Yang J., *et al.* 2012. *J. Biol Chem.* 287:1996. PubMed.

**Description:** HDAC1 (histone deacetylase 1) is a 65 kD member of the Class I histone deacetylase family, similar to the yeast RPD3 protein. This nuclear protein operates in concert with histone acetyltransferases to control core histone acetylation in highly conserved lysine residues. HDAC activity has been associated with transcriptional repression and nucleosomal condensation. HDAC1 can be modified by phosphorylation and sumoylation. HDAC1 has been shown to interact with protein phosphatase 1, Rb, MyoD (muscle cells), and the mSin3a co-repressor complex. The Poly6074 antibody has been shown to be useful for Western blotting of human and mouse HDAC1.

**Antigen References:** 1. Tong J, *et al.* 1998. *Nature* 395:917.  
 2. Grunstein M. 1997. *Nature* 389:349.  
 3. Wolffe A. 1996. *Science* 272:371.  
 4. Lee D, *et al.* 1993. *Cell* 72:73.

### Related Products:

**Product**

Purified anti-HDAC2

Purified anti-HDAC3

Purified anti-HDAC4

Purified anti-HDAC6

Purified anti-HDAC7

Purified anti-Rb

HRP Donkey anti-rabbit IgG (minimal

x-reactivity)

### Clone

Poly6075

Poly6076

Poly6077

Poly6078

Poly6079

Poly6146

Poly4064

### Application

WB

WB, IF

WB, IF

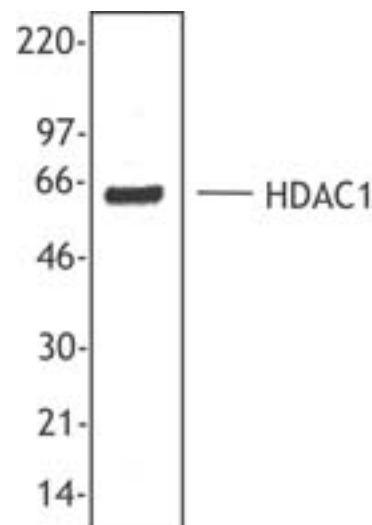
WB

WB

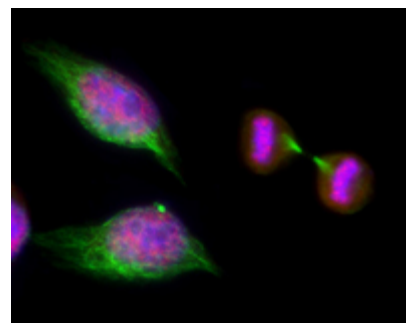
WB

ELISA, IHC,

WB



HepG2 nuclear extract was resolved by electrophoresis, transferred to nitrocellulose, and probed with rabbit anti-HDAC1 antibody. Proteins were visualized using a donkey anti-rabbit secondary conjugated to HRP and a chemiluminescence detection system.



Immunofluorescent microscope analysis of HeLa cells using anti-HDAC1 polyclonal antibody (poly6074) (red). α-tubulin (clone 10D8) has been labeled with green and nuclei were stain with DAPI (blue).



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