

# Product Data Sheet

## Purified anti-HDAC4

**Catalog # / Size:** 607701 / 50 µl (5 Western blots)  
607702 / 200 µl (20 Western blots)

**Clone:** Poly6077

**Isotype:** Rabbit IgG

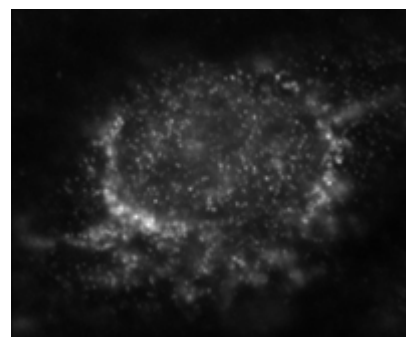
**Immunogen:** Recombinant human (partial), N-terminal

**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.



Fixed and permeabilized HeLa cells were stained with a 1:50 dilution of HDAC4 antibody (Poly6077) for 1 hr, incubated with goat anti-rabbit conjugated to Alexa Fluor® 488 (top panel). Cells were examined at 100 X magnification. DAPI stained cells are shown as a control (bottom panel).

## 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. It is recommended that the reagent be titrated for optimal performance for each application.

**Description:** HDAC4 is a 140 kD class II histone deacetylase similar to the yeast HDA1 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. HDAC4 uses active nuclear export to shuttle between the nucleus and the cytoplasm. HDAC4 is modified by phosphorylation by CaM kinase I or IV. HDAC4 has been reported to interact with 14-3-3 in the cytoplasm and MEF2A, HDAC3, NcoR and SMRT in the nucleus. The Poly6077 antibody has been shown to be useful for the detection of human (Western blotting and immunofluorescence) and mouse (Western blotting; immunofluorescence not tested) HDAC4 protein.

**Antigen References:**

1. Tong JK, *et al.* 1998. *Nature* 395:917.
2. Grunstein M. 1997. *Nature* 389:349.
3. Wolffe A. 1996. *Science* 272:371.
4. Lee DY, *et al.* 1993. *Cell* 72:73.
5. Wang A, *et al.* 2001. *Mol. Cell. Biol.* 21:5992.
6. Ertsos M, *et al.* 1999. *Mol. Cell. Biol.* 19:7816.

### Related Products:

**Product**

Purified anti-HDAC1

Purified anti-HDAC2

Purified anti-HDAC3

Purified anti-HDAC6

Purified anti-HDAC7

Purified anti-14-3-3 ζ/δ

HRP Donkey anti-rabbit IgG (minimal x-reactivity)

### Clone

Poly6074

Poly6075

Poly6076

Poly6078

Poly6079

Poly6148

Poly4064

### Application

WB, IF

WB

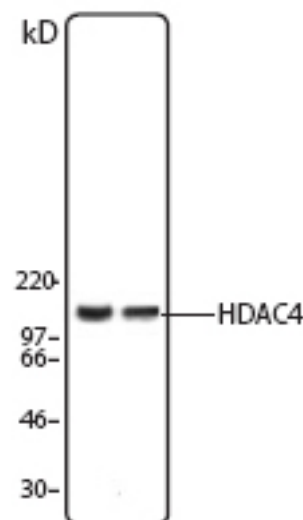
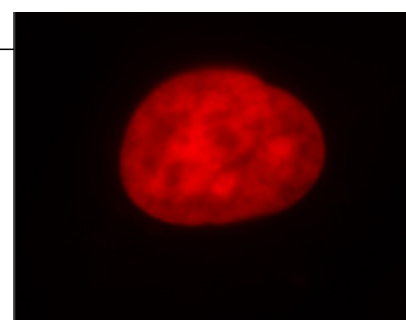
WB, IF

WB

WB

WB

ELISA, IHC, WB



NIH 3T3 (left lane) and Jurkat (right lane) nuclear extracts were probed with rabbit anti-HDAC4 antibody by Western Blot.



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