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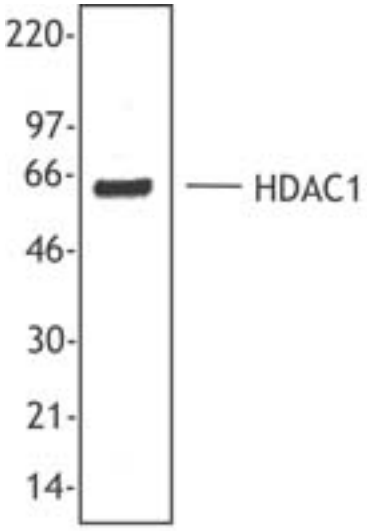
Product Data Sheet

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.



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.

Applications:

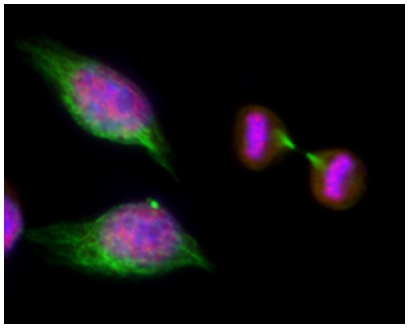
Applications: WB, IF
Recommended Usage: Each lot of this antibody is quality control tested by Western blotting. Western blotting, suggested working dilution(s): Use 10 µl per 5 ml antibody dilution buffer for each mini-gel. For immunofluorescence microscopy: Use a starting dilution of 1:100. It is recommended 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	Clone	Application
Purified anti-HDAC2	Poly6075	WB
Purified anti-HDAC3	Poly6076	WB, IF
Purified anti-HDAC4	Poly6077	WB, IF
Purified anti-HDAC6	Poly6078	WB
Purified anti-HDAC7	Poly6079	WB
Purified anti-Rb	Poly6146	WB
HRP Donkey anti-rabbit IgG (minimal x-reactivity)	Poly4064	ELISA, IHC, WB



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).

BioLegend Inc., 9727 Pacific Heights Blvd, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587