

Product datasheet for **CF502193**

HDAC1 Mouse Monoclonal Antibody [Clone ID: OTI5F9]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI5F9
Applications:	FC, IF, WB
Recommended Dilution:	WB 1:1000, IF 1:100, FC 1:100
Reactivity:	Human, Mouse, Monkey, Dog, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human HDAC1 (NP_004955) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	54.9 kDa
Gene Name:	histone deacetylase 1
Database Link:	NP_004955 Entrez Gene 297893 Rat Entrez Gene 433759 Mouse Entrez Gene 487309 Dog Entrez Gene 708441 Monkey Entrez Gene 3065 Human Q13547



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Background:

Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq]

Synonyms:

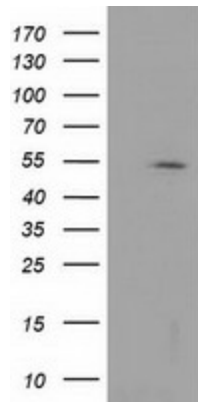
GON-10; HD1; RPD3; RPD3L1

Protein Families:

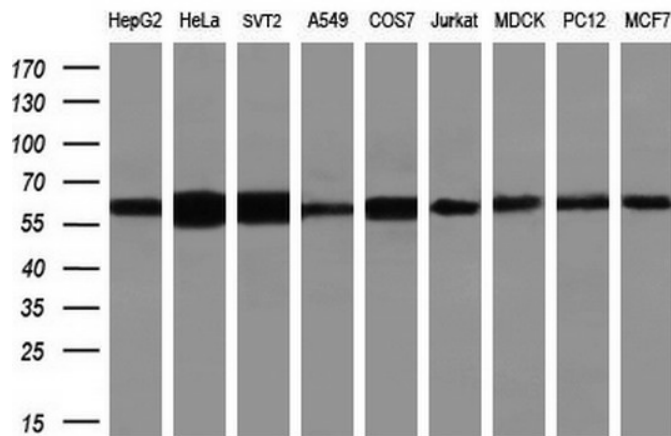
Adult stem cells, Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors

Protein Pathways:

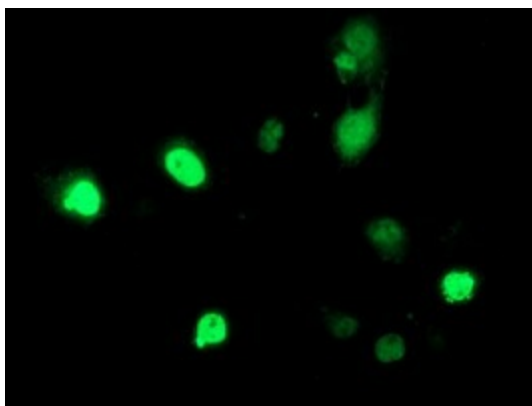
Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer

Product images:


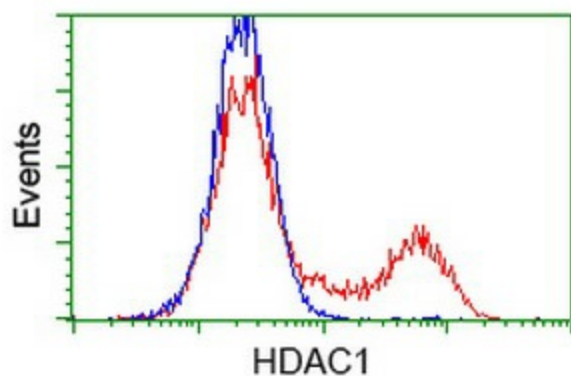
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY HDAC1 (Cat# [RC201745], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-HDAC1 (Cat# [TA502193]). Positive lysates [LY417624] (100ug) and [LC417624] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 9 different cell lines by using anti-HDAC1 monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human) (1:1000).



Anti-HDAC1 mouse monoclonal antibody ([TA502193]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY HDAC1 ([RC201745]).



HEK293T cells transfected with either [RC201745] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-HDAC1 antibody ([TA502193]), and then analyzed by flow cytometry.