HDAC1 Monoclonal Antibody (HDAC1-21)

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Mouse / IgG3
Class	Monoclonal
Type	Antibody
Clone	HDAC1-21
Conjugate	Unconjugated
Immunogen	Synthetic peptide corresponding to residues K(466) E E K P E A K G V K E E V K L A(482) of human HDAC1.
Form	Liquid
Concentration	2.4 mg/mL
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_559382

Applications	Tested Dilution	Publications
Western Blot (WB)	2-4 µg/mL	1 Publication
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	-
ChIP assay (ChIP)	2.5 µg/10^6 cells	-

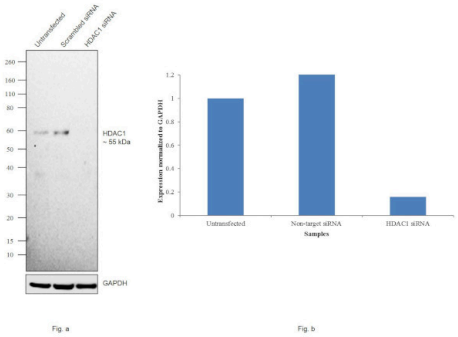
Product Specific Information

Expected to cross react with rat due to sequence homology.

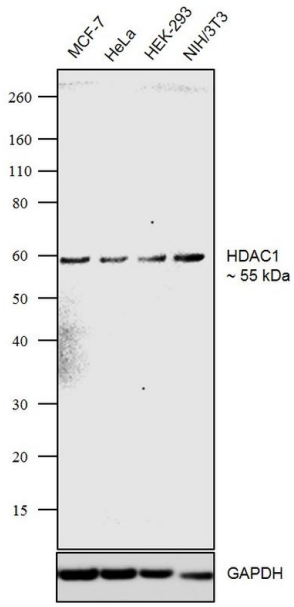
MA1-20354 detects a band ~65 kDa by Western blot. Possible positive controls for this product are HeLa cell whole cell lysate.

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

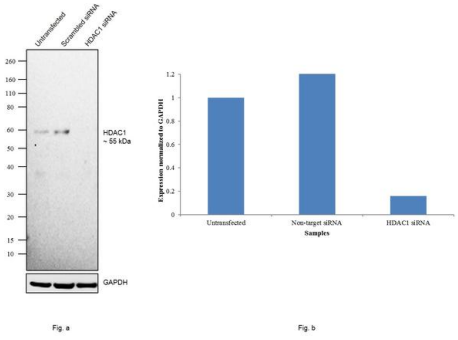
Product Images For HDAC1 Monoclonal Antibody (HDAC1-21)



HDAC1 Antibody (MA1-20354)
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. MCF7 cells were transfected with HDAC1 siRNA and decrease in signal intensity was observed in western blot application using Anti- HDAC1 Monoclonal Antibody (HDAC1-21) (Product # MA1-20354). {KD}



HDAC1 Antibody (MA1-20354) in WB
Western blot was performed using Anti-HDAC1 Polyclonal Antibody (Product # MA1-20354) and ~55kDa band corresponding to HDAC1 was observed in MCF-7, HeLa, HEK-293 and NIH/3T3 cells. Modified whole cell extracts (1% SDS) (30 ug lysate) of MCF-7 (Lane 1), HeLa (Lane 2), HEK-293 (Lane 3) and NIH/3T3 (Lane 4) were electrophoresed using NuPAGE® 4-12% Bis-Tris gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001).The blot was probed with the primary antibody (2µg/ml) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005)..



HDAC1 Antibody (MA1-20354) in WB
Knockdown of HDAC1 was achieved by transfecting MCF7 cells with HDAC1 specific siRNAs (Silencer® select Product # s73). Western blot analysis (Fig. a) was performed using Modified whole cell extracts (1% SDS) from the HDAC1 knockdown cells (Lane 3), non-specific scrambled siRNA transfected cells (Lane 2) and untransfected cells (Lane 1). The blot was probed with Anti-HDAC1 Monoclonal Antibody (HDAC1-21) (Product # MA1-20354, 2µg/ml) and Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Densitometric analysis of this Western Blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to HDAC1..

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1 Reference

Western Blot (1)

Science translational medicine

Adenylyl cyclase activating polypeptide reduces phosphorylation and toxicity of the polyglutamine-expanded androgen receptor in spinobulbar muscular atrophy.

"MA120354 was used in western blot to search for signaling pathways that modulate polyglutamine-androgen receptor phosphorylation for therapy development"

Authors: Polanco MJ,Parodi S,Piol D,Stack C,Chivet M,Contestabile A,Miranda HC,Lievens PM,Espinoza S,Jochum T, Rocchi A,Grunseich C,Gainetdinov RR,Cato AC,Lieberman AP,La Spada AR,Sambataro F,Fischbeck KH,Gozes I, Pennuto M

Year
2016

Species
Human