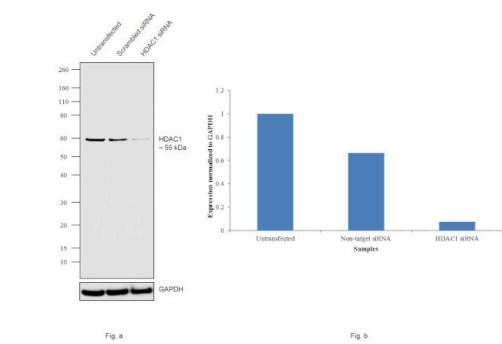


HDAC1 Polyclonal Antibody

Product Details	
Size	50 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	raised in rabbits against the C-terminal region of human HDAC1, using a KLH-conjugated synthetic peptide.
Form	Liquid
Concentration	1.73 mg/mL
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2533875

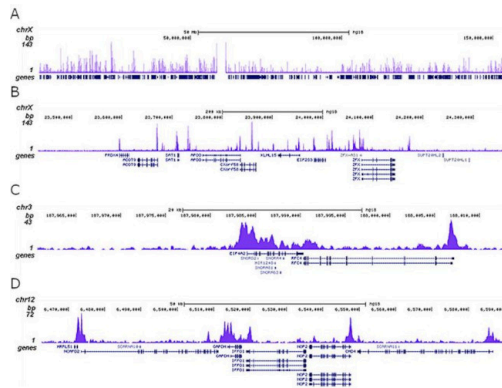
Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	2 Publications
Immunocytochemistry (ICC/IF)	1:500	-
ELISA (ELISA)	1:4,000	-
ChIP assay (ChIP)	2.5 µg/10 ⁶ cells	1 Publication
ChIP-sequencing (ChIP-Seq)	2 µg/4x10 ⁶ cells	-

Product Images For HDAC1 Polyclonal Antibody



HDAC1 Antibody (49-1025)

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 Polyclonal Antibody (Product # 49-1025). {KD}

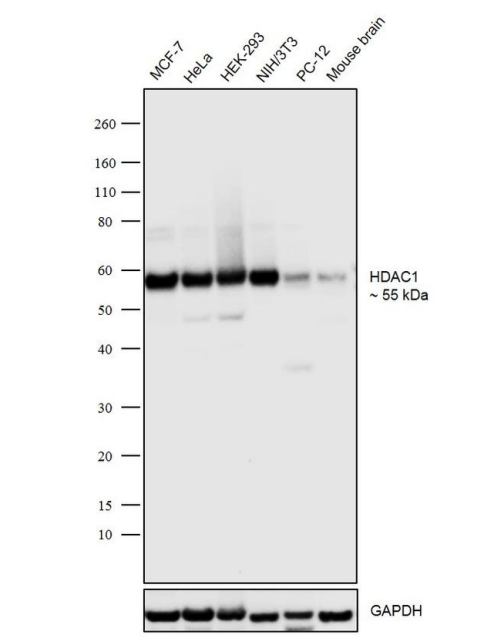


HDAC1 Antibody (49-1025) in ChIP-seq

ChIP was performed on sheared chromatin from 4,000,000 HeLa cells using 2 µg of the anti-HDAC1 antibody (Product # 49-1025) as described above. The IP'd DNA was subsequently analysed on an Illumina HiSeq 2000. Library preparation, cluster generation and sequencing were performed according to the manufacturer's instructions. The 50 bp tags were aligned to the human genome using the BWA algorithm. The figure shows the peak distribution along the complete sequence and a 1 Mb region of the X-chromosome (figure A and B) and in two regions surrounding the GAPDH and EIF4A2 positive control genes, respectively (figure C and D).

HDAC1 Antibody (49-1025) in WB

Western blot was performed using Anti-HDAC1 Polyclonal Antibody (Product # 49-1025) and ~55 kDa band corresponding to HDAC1 was observed in MCF-7, HeLa, HEK-293, NIH/3T3, PC-12 cells and Mouse brain. Modified whole cell extracts (1% SDS) (30 µg lysate) of MCF-7 (Lane 1), HeLa (Lane 2), HEK-293 (Lane 3), NIH/3T3 (Lane 4), PC-12 (Lane 5) and Mouse brain (Lane 6) 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 (1:1000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



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Western Blot (2)

Frontiers in oncology

Exosomal RNF157 mRNA from prostate cancer cells contributes to M2 macrophage polarization through destabilizing HDAC1.

"Published figure using HDAC1 polyclonal antibody (Product # 49-1025) in Western Blot"

Authors: Guan H,Mao L,Wang J,Wang S,Yang S,Wu H,Sun W,Chen Z,Chen M

Year
2022

Breast cancer research and treatment

Transcriptional repression of ER through hMAPK dependent histone deacetylation by class I HDACs.

"49-1025 was used in western blot to study the relationship between hyperactivation of MAPK and the estrogen receptor in breast cancer cells"

Authors: Plotkin A,Volmar CH,Wahlestedt C,Ayad N,El-Ashry D

Year
2014

Species
Human

ChIP assay (1)

Oncogene

The heparan sulfate sulfotransferase 3-OST3A (HS3ST3A) is a novel tumor regulator and a prognostic marker in breast cancer.

"49-1025 was used in Chromatin immunoprecipitation to define 3-OST3A as a novel regulator of breast cancer pathogenicity, displaying tumor-suppressive or oncogenic activities in a cell- and tumor-dependent context, and demonstrate the clinical value of the HS-O-sulfotransferase 3-OST3A as a prognostic marker in HER2+ patients."

Authors: Mao X,Gauche C,Coughtrie MW,Bui C,Gulberti S,Merhi-Soussi F,Ramalanjaona N,Bertin-Jung I,Diot A,Dumas D,De Freitas Aires N,Thompson AM,Bourdon JC,Ouzzine M,Fournel-Gigleux S

Year
2016

Species
Human

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