

HDAC4 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 363 and 639 of Human HDAC4
Form	Liquid
Concentration	2.1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2546579

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunohistochemistry (Frozen) (IHC (F))	Assay-dependent	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	-
Immunoprecipitation (IP)	1:100-1:500	-
ChIP assay (ChIP)	Assay-Dependent	-

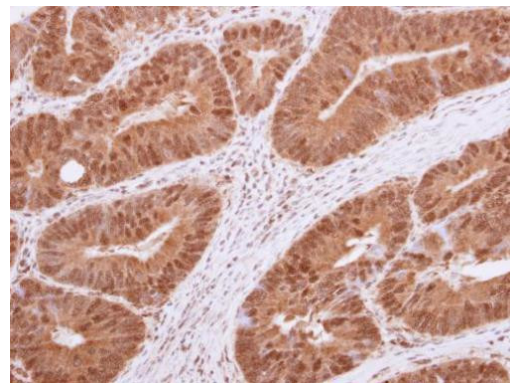
Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, Neuro2A, NIH-3T3, Raw264.7, C2C12, PC-12, Rat-2.

Predicted reactivity: Mouse (90%), Rat (88%), Chicken (84%).

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

Product Images For HDAC4 Polyclonal Antibody

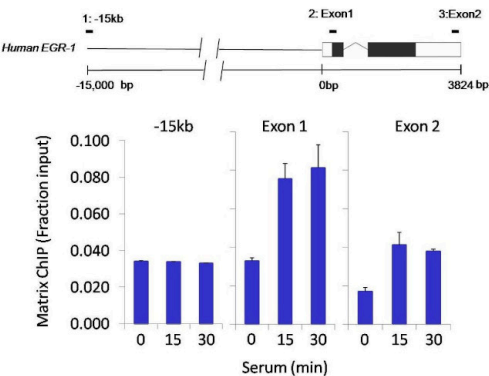


HDAC4 Antibody (PA5-29103) in IHC (P)

Immunohistochemical analysis of paraffin-embedded human colon carcinoma, using HDAC4 (Product # PA5-29103) antibody at 1:250 dilution. Antigen Retrieval: EDTA based buffer, pH 8.0, 15 min.

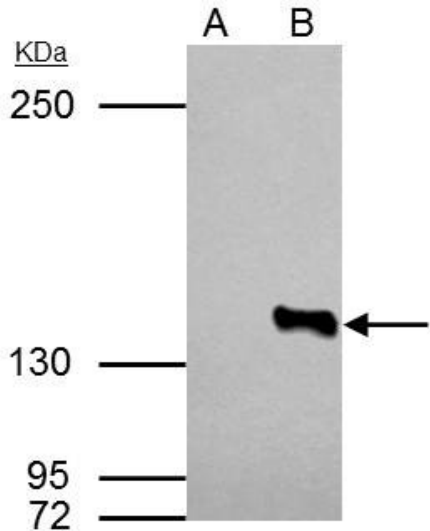
HDAC4 Antibody (PA5-29103) in ChIP

Chromatin immunoprecipitation analysis of HDAC4 was performed using cross-linked chromatin from 1x10⁶ HCT116 colon carcinoma cells treated with serum for 0, 15, and 30 minutes. Immunoprecipitation was performed using a multiplex microplate Matrix ChIP assay (see reference for Matrix ChIP protocol: <http://www.ncbi.nlm.nih.gov/pubmed/22098709>) with 1.0 µL/100 µL well volume of an HDAC4 polyclonal antibody (Product # PA5-29103). Chromatin aliquots from ~1x10⁵ cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using 1 µL of eluted DNA in 2 µL SYBR real-time PCR reactions containing primers to amplify -15kb upstream of the Egr1 gene or exon-1 or exon-2 of Egr1. PCR calibration curves were generated for each primer pair from a dilution series of sheared total genomic DNA. Quantitation of immunoprecipitated chromatin is presented as signal relative to the total amount of input chromatin. Results represent the mean +/- SEM for three experiments. A schematic representation of the Egr-1 locus is shown above the data where boxes represent exons (black boxes = translated regions, white boxes = untranslated regions), the zigzag line represents an intron, and the straight line represents upstream sequence. Regions amplified by Egr-1 primers are represented by black bars. Data courtesy of the Innovators Program.



HDAC4 Antibody (PA5-29103) in IP

HDAC4 Polyclonal Antibody immunoprecipitates HDAC4 protein in IP experiments. IP samples: Jurkat whole cell extract. A. Control with 4 µg of preimmune Rabbit IgG. B. Immunoprecipitation of HDAC4 protein by 4 µg HDAC4 Polyclonal Antibody (Product # PA5-29103). 5 % SDS-PAGE. The immunoprecipitated HDAC4 protein was detected by HDAC4 Polyclonal Antibody (Product # PA5-29103) diluted at 1:500.



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