

HDAC9 Polyclonal Antibody

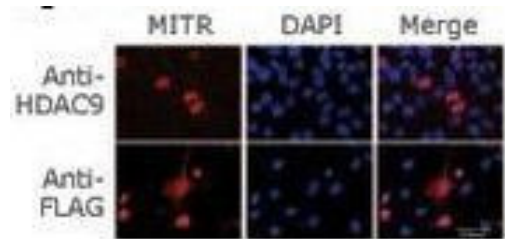
Product Details	
Size	400 µL
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	KLH conjugated synthetic peptide between 2-32 amino acids from the N-terminal region of human HDAC9
Form	Liquid
Concentration	2 mg/mL
Purification	Ammonium sulfate precipitation, Size-exclusion - Dialysis
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2117071

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100	-
Immunocytochemistry (ICC/IF)	1:1,000	-
Immunoprecipitation (IP)	1:100	-
ChIP assay (ChIP)	1-3 µL	-

Product Specific Information

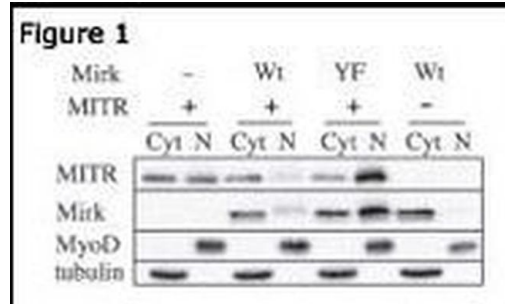
This antibody is predicted to react with chicken and mouse based on sequence homology.

Product Images For HDAC9 Polyclonal Antibody



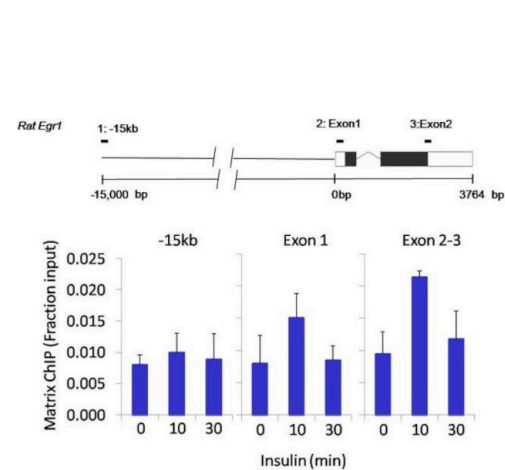
HDAC9 Antibody (PA5-11245) in ICC/IF

Immunofluorescent analysis of MITR for a compartmentalization study in undifferentiated C2C12 myoblasts transfected with a MITR-expressing plasmid. MITR is detected by using an anti-HDAC9 polyclonal antibody (Product # PA5-11245) (top panel) or a FLAG antibody (bottom panel) detecting a FLAG epitope fused at the N-term end of the MITR construct.



HDAC9 Antibody (PA5-11245) in WB

Western blot analysis of HDAC9 in C2C12 cells using a HDAC9 polyclonal antibody (Product # PA5-11245). Cells were transfected with plasmids coding for Mirk (Wt), kinase-inactive Mirk (YF) or MITR. Mirk, MyoD and tubulin proteins are shown for cytoplasmic (Cyt) and nuclear (N) extracts from undifferentiated C2C12 myoblasts.



HDAC9 Antibody (PA5-11245) in ChIP

Chromatin immunoprecipitation analysis of HDAC9 was performed using cross-linked chromatin from 1×10^6 HTC-IR rat hepatoma cells treated with insulin for 0, 10, 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 $1.0 \mu\text{L}/100 \mu\text{L}$ well volume of an HDAC9 polyclonal antibody (Product # PA5-11245). Chromatin aliquots from $\sim 1 \times 10^5$ cells were used per ChIP pull-down. Quantitative PCR data were done in quadruplicate using $1 \mu\text{L}$ of eluted DNA in $2 \mu\text{L}$ SYBR real-time PCR reactions containing primers to amplify -15kb upstream of the Egr1 gene or exon-1 or exon-2-3 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 \pm SEM for three experiments. A schematic representation of the rat 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.

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Western Blot (1)

BioMed research international		Year 2022
Histone Deacetylase9 Represents the Epigenetic Promotion of M1 Macrophage Polarization and Inflammatory Response via TLR4 Regulation.		Species Human
"PA5-11245 was used in Western Blotting to indicate that toll-like receptor 4 (TLR4) was not only positively correlated to the HDAC9 gene, but was also upregulated in atherosclerosis, where it was also significantly upregulated in the atherosclerosis cell model of oxidized low-density lipoprotein-induced macrophages."		Dilution 1:1000
Authors: Cao X,Zhang M,Li H,Chen K,Wang Y,Yang J		

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