

Rabbit HDAC9 Polyclonal Antibody | anti-HDAC9 antibody

Anti-HDAC9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125639	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

HDAC9; Polyclonal Antibody; Anti-HDAC9 Antibody; Histone deacetylase 9; HD9; Histone deacetylase 7B; HD7; HD7b; Histone deacetylase-related protein; MEF2-interacting transcription repressor MITR; HDAC7; HDAC7B; HDRP; KIAA0744; MITR; histone deacetylase 9; anti-HDAC9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for HDAC9 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-HDAC9 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human HDAC9 recombinant protein (Position: S7-Q469).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



WB (Western Blot)

Figure 1. Western blot analysis of HDAC9 using anti-HDAC9 antibody (AAA125639). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat testis tissue lysates Lane 2: rat liver tissue lysates Lane 3: mouse testis tissue lysates Lane 4: mouse liver tissue lysates Lane 5: mouse RAW264. 7 whole cell lysates Lane 6: human THP-1 whole cell lysates Lane 7: human HL-60 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-HDAC9 antigen affinity purified polyclonal antibody (Catalog # AAA125639) at 0. 5 μg/mL overnight at 4 degree C, then washed with TBS-0. 1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HDAC9 at approximately 150KD. The expected band size for HDAC9 is at 150KD.



IF (Immunofluorescence)

Figure 2. IF analysis of HDAC9 using anti-HDAC9 antibody (AAA125639). HDAC9 was detected in immunocytochemical section of Hela cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 4μg/mL rabbit anti-HDAC9 Antibody (AAA125639) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of THP-1 cells using anti-HDAC9 antibody (AAA125639). Overlay histogram showing THP-1 cells stained with AAA125639 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-HDAC9 Antibody (AAA125639, 1μg/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL INFORMATION

Related Product Information for anti-HDAC9 antibody	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene has sequence homology to members of the histone deacetylase family. This gene is orthologous to the Xenopus and mouse MITR genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined.
References	1. Mejat, A., Ramond, F., Bassel-Duby, R., Khochbin, S., Olson, E. N., Schaeffer, L. Histone deacetylase 9 couples neuronal activity to muscle chromatin acetylation and gene expression. Nature Neurosci. 8: 313-321, 2005. 2. Sparrow, D. B., Miska, E. A., Langley, E., Reynaud-Deonauth, S., Kotecha, S., Towers, N., Spohr, G., Kouzarides, T., Mohun, T. J. MEF-2 function is modified by a novel co-repressor, MITR. EMBO J. 18: 5085-5098, 1999. 3. Zhou, X., Marks, P. A., Rifkind, R. A., Richon, V. M. Cloning and characterization of a histone deacetylase, HDAC9. Proc. Nat. Acad. Sci. 98: 10572-10577, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	323423044
NCBI GeneID	9734
NCBI Accession #	NP_001191073.1
NCBI GenBank Nucleotide #	NM_001204144.1
UniProt Accession #	Q9UKV0; O94845; O95028; Q2M2R6; Q86SL1; Q86US3; A7E2F3; B7Z917

Molecular Weight	111,297 Da
NCBI Official Full Name	histone deacetylase 9 isoform 6
NCBI Official Synonym Full Names	histone deacetylase 9
NCBI Official Symbol	HDAC9
NCBI Official Synonym Symbols	HD7; HD9; HD7b; HDAC; HDRP; MITR; HDAC7; HDAC7B; HDAC9B; HDAC9FL
NCBI Protein Information	histone deacetylase 9; histone deacetylase 7B; histone deacetylase 4/5-related protein; MEF-2 interacting transcription repressor (MITR) protein
UniProt Protein Name	Histone deacetylase 9
UniProt Gene Name	HDAC9
UniProt Synonym Gene Names	HDAC7; HDAC7B; HDRP; KIAA0744; MITR; HD9; HD7; HD7b
UniProt Entry Name	HDAC9_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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