bsm-54186R **[Primary Antibody]**

HDAC9 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 6A4
GeneID: 9734
SWISS: Q9UKV0
Target: HDAC9
Immunogen: A synthesized peptide derived from human HDAC9: 1-38.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: HDAC9 (Histone Deacetylase 9) catalyses the deacetylation of lysine residues on the core histones (H2A, H2B, H3 and H4). It belongs to the Class IIa HDAC family, which are key regulators of several developmental and differentiation processes such as cardiac growth. HDAC9 represses MEF2 (myocyte enhancer factor 2)-dependent transcription, playing an important role in cardiac hypertrophy.

The HDAC9 isoform MITR/HDRP lacks active site residues and is therefore catalytically inactive. It represses MEF2-dependent transcription by interacting with HDAC1 and/or HDAC3. MITR/HDRP is thought to play a role in skeletal myogenesis and in heart development. It also protects neurons from apoptosis by inhibiting c-Jun phosphorylation by MAPK10 and by repressing c-Jun transcription through recruitment of HDAC1 to the c-Jun promoter.

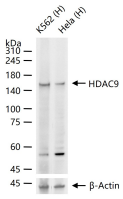
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

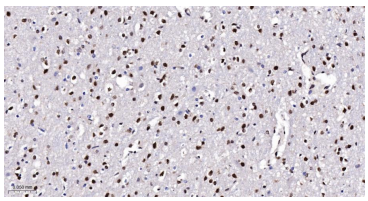
Predicted MW.: 111 kDa

Subcellular Location: Nucleus

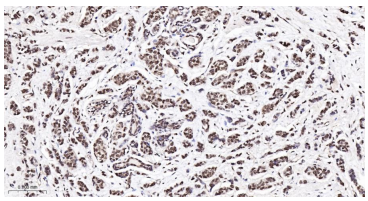
VALIDATION IMAGES



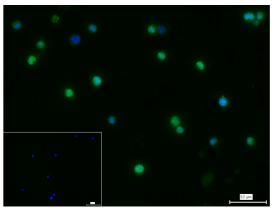
25 ug total protein per lane of various lysates (see on figure) probed with HDAC9 monoclonal antibody, unconjugated (bsm-54186R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with HDAC9 Monoclonal Antibody, Unconjugated (bsm-54186R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with HDAC9 Monoclonal Antibody, Unconjugated (bsm-54186R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed Raji (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (HDAC9) monoclonal Antibody, unconjugated (bsm-54186R) 1:100, 90 min at 37°C; followed by

conjugated Goat Anti-Rabbit IgG antibody (green, bs-40295G-FITC) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.

SELECTED CITATIONS

- **[IF=3.7]** Berrin Ozdil. et al. Modulating Cancer Stem Cell Characteristics in CD133+ Melanoma Cells through Hif1α, KLF4, and SHH Silencing. ACS OMEGA. 2025;10(16):16804–16814 FC ;Cricetulus griseus. 40321496
- **[IF=2.8]** Merve Ozdemir. et al. HDAC9/p300/F-actin immunoexpression and migration analysis for malignant melanoma stem cell. PATHOL RES PRACT. 2023 Oct;250:154829 IF ;Human. 37748211