

Datasheet for ABIN387960  
**anti-HDAC9 antibody (N-Term)**

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## Overview

Quantity:	400 µL
Target:	HDAC9
Binding Specificity:	AA 2-32, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	This HDAC9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-32 amino acids from the N-terminal region of human HDAC9.
Clone:	RB2582
Isotype:	Ig Fraction
Predicted Reactivity:	C, M
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

## Target Details

Target:	HDAC9
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## Target Details

Alternative Name:	HDAC9 ( <a href="#">HDAC9 Products</a> )
Background:	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.
Molecular Weight:	111297
Gene ID:	9734
NCBI Accession:	<a href="#">NP_001191073</a> , <a href="#">NP_001191074</a> , <a href="#">NP_001191075</a> , <a href="#">NP_001191076</a> , <a href="#">NP_001191077</a> , <a href="#">NP_055522</a> , <a href="#">NP_478056</a> , <a href="#">NP_848510</a> , <a href="#">NP_848512</a>
UniProt:	<a href="#">Q9UKV0</a>
Pathways:	<a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

Application Notes:	IF: 1:1,000. IP: 1:100. WB: 1:1000. WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

## Handling

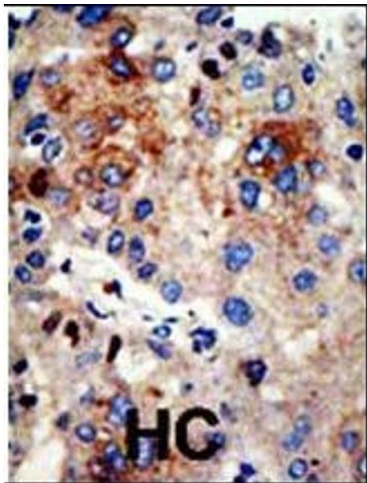
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

Expiry Date: 6 months

Publications

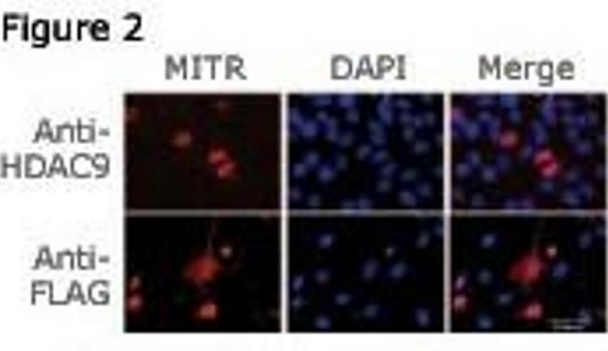
Product cited in: Engman, Varghese, Lagerstedt Robinson, Malmgren, Hammarsjö, Byström, Lalitkumar, Gemzell-Danielsson: "GSTM1 gene expression correlates to leiomyoma volume regression in response to mifepristone treatment." in: **PLoS ONE**, Vol. 8, Issue 12, pp. e80114, (2013) ([PubMed](#)).

Images



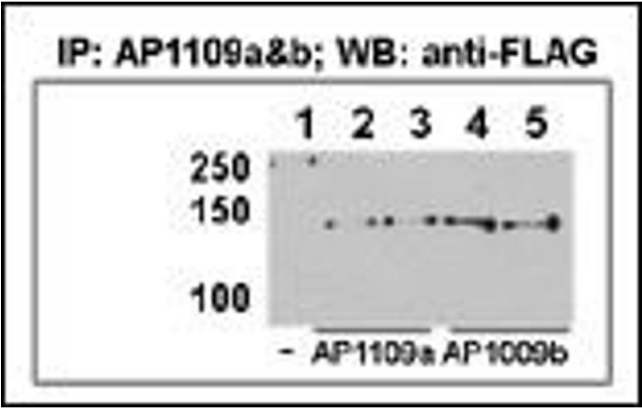
Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Immunofluorescence

**Image 2.** Figure 2: Immunofluorescence staining of MITR for a compartmentalization study in undifferentiated C2C12 myoblasts transfected with a MITR-expressing plasmid. MITR is detected by using the HDAC9 N-term antibody (top panel) or a FLAG antibody (bottom panel) detecting a FLAG epitope fused at the N-term end of the MITR construct. Data courtesy of laboratory of Dr. Eileen Friedman. Dept of Pathology, Upstate Medical University, State University of New York.



### Immunoprecipitation

**Image 3.** This figure shows that both Pab can immunoprecipitate (IP) HDAC9 from HeLa-HDAC9 tranfected cells. (Data kindly provided by Dr. Zhigang Yuan, H. Lee Moffitt Cancer Center and Research Institute, Tampa, FL).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN387960.