

Datasheet for ABIN387961

anti-HDAC9 antibody (C-Term)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	HDAC9
Binding Specificity:	AA 503-533, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC9 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This HDAC9 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 503-533 amino acids from the C-terminal region of human HDAC9.
Clone:	RB2742
Isotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	HDAC9
Alternative Name:	HDAC9 (HDAC9 Products)

Target Details

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:	NP_001191073 , NP_001191074 , NP_001191075 , NP_001191076 , NP_001191077 , NP_055522 , NP_478056 , NP_848510 , NP_848512
UniProt:	Q9UKV0
Pathways:	Regulation of Muscle Cell Differentiation , Skeletal Muscle Fiber Development

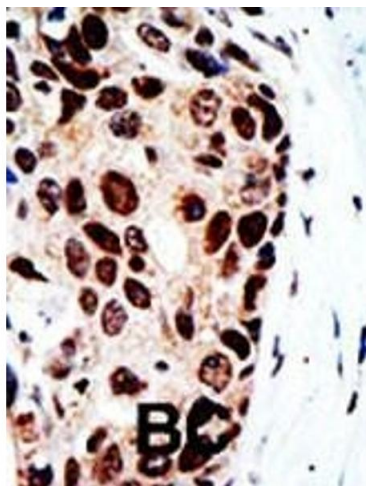
Application Details

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

Handling

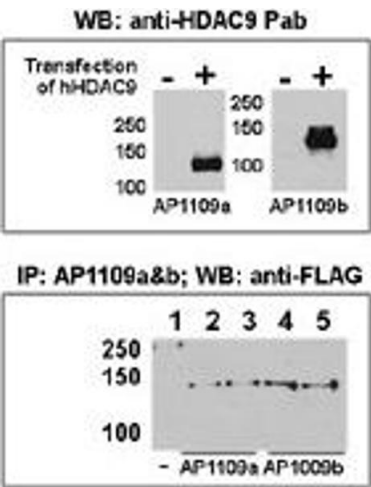
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	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

Product cited in: Lenoir, Flosseau, Ma, Blondeau, Mai, Bassel-Duby, Ravassard, Olson, Haumaitre, Scharfmann: "Specific control of pancreatic endocrine α - and β -cell mass by class IIa histone deacetylases HDAC4, HDAC5, and HDAC9." in: **Diabetes**, Vol. 60, Issue 11, pp. 2861-71, (2011) ([PubMed](#)).



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 DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated. BC = breast carcinoma, HC = hepatocarcinoma.



Western Blotting

Image 2. Both anti-HDAC9 N-term ((ABIN387960 and ABIN2844679)) and C-term ((ABIN387961 and ABIN2844680)) Pab were tested by WB and IP-WB using HeLa and HeLa-HDAC9 transfected cells. Top figure shows both Pab specifically detect HDAC9 in HeLa-HDAC9 transfected cell but not HeLa alone. Bottom 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).