

Datasheet

HDAC9 polyclonal antibody

Catalog Number: PAB2338

Regulatory Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of HDAC9.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human HDAC9.

Host: Rabbit

Reactivity: Human

Applications: IF, IHC-P, IP, WB-Ce
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Form: Liquid

Purification: Protein G purification

Recommend Usage: Western Blot (1:1000)
Immunohistochemistry (1:50-100)
Immunoprecipitation (1:50-100)
Immunofluorescence (1:1000)
The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 9734

Gene Symbol: HDAC9

Gene Alias: DKFZp779K1053, HD7, HDAC, HDAC7, HDAC7B, HDAC9B, HDAC9FL, HDRP, KIAA0744, MITR

Gene Summary: 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. [provided by RefSeq]

References:

1. Molecular characterization of a familial translocation implicates disruption of HDAC9 and possible position effect on TGFbeta2 in the pathogenesis of Peters' anomaly. David D, Cardoso J, Marques B, Marques R, Silva ED, Santos H, Boavida MG. Genomics. 2003 May;81(5):489-503.
2. The histone deacetylase 9 gene encodes multiple protein isoforms. Petrie K, Guidez F, Howell L, Healy L, Waxman S, Greaves M, Zelent A. J Biol Chem. 2003 May 2;278(18):16059-72. Epub 2003 Feb 17.
3. Chromosomal organization and localization of the human histone deacetylase 9 gene (HDAC9). Mahlke U, Schnittger S, Will J, Cicek N, Hoelzer D. Biochem Biophys Res Commun. 2002 Apr 26;293(1):182-91.