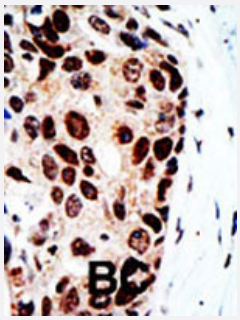
HDAC9 polyclonal antibody

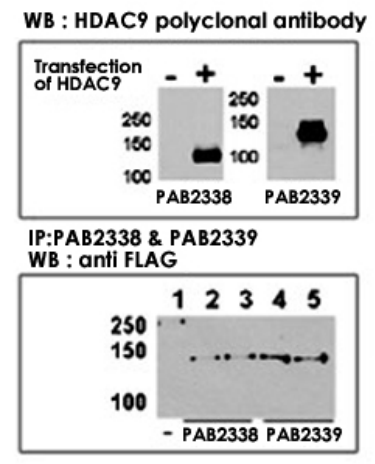
Catalog # PAB2339 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the HDAC9 polyclonal antibody (Cat # PAB2339) , 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.



Immunoprecipitation

Both anti-HDAC9 N-term (Cat # PAB2238) and C-term (Cat # PAB2339) polyclonal antibody were tested by WB and IP-WB using HeLa and HeLa-HDAC9 transfected cells.
Top figure shows both polyclonal antibody specifically detect HDAC9 in HeLa-HDAC9 transfected cell but not HeLa alone.
Bottom figure shows that both polyclonal antibody 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) .

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of HDAC9.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human HDAC9.
Host	Rabbit
Reactivity	Human
Form	Liquid

Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) Immunoprecipitation (1:50-100) 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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — HDAC9

Entrez GeneID	9734
Protein Accession#	Q9UKV0
Gene Name	HDAC9
Gene Alias	DKFZp779K1053, HD7, HDAC, HDAC7, HDAC7B, HDAC9B, HDAC9FL, HDRP, KIAA0744, MI TR
Gene Description	histone deacetylase 9
Omim ID	606543

Gene Ontology	Hyperlink
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 fa ctor access to DNA. The protein encoded by this gene has sequence homology to members of th e histone deacetylase family. This gene is orthologous to the Xenopus and mouse MITR genes. T he MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity throug h recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This enc oded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have bee n described for this gene but the full-length nature of some of them has not been determined. [prov ided by RefSeq
Other Designations	MEF-2 interacting transcription repressor (MITR) protein|histone deacetylase 4/5-related protein|h istone deacetylase 7|histone deacetylase 7B

Publication Reference

- 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.

- The histone deacetylase 9 gene encodes multiple protein isoforms.

  Petrie K, Guidez F, Howell L, Healy L, Waxman S, Greaves M, Zelent A.

  The Journal of Biological Chemistry 2003 May; 278(18):16059.

  Application: IF, WB-Tr, Human, Monkey, COS-7, HEK 293T cells

- Chromosomal organization and localization of the human histone deacetylase 9 gene (HDAC9).

  Mahlknecht U, Schnittger S, Will J, Cicek N, Hoelzer D.

  Biochemical and Biophysical Research Communications 2002 Apr; 293(1):182.

Disease

- Cardiovascular Diseases
- Cognition
- Diabetes Mellitus
- Disease Susceptibility
- Edema

- Schizophrenia
- Tobacco Use Disorder