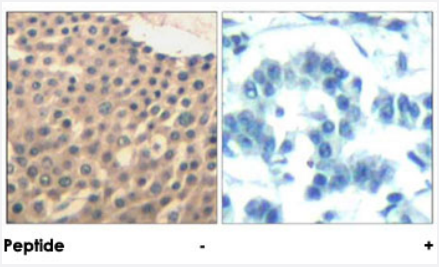
HDAC4/HDAC5/HDAC9 polyclonal antibody

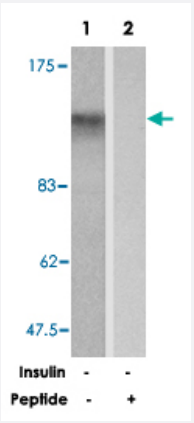
Catalog # PAB26838 Size 100 ug

Applications



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

Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using HDAC4/HDAC5/HDAC9 polyclonal antibody (Cat # PAB26838).



Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cell using HDAC4/HDAC5/HDAC9 polyclonal antibody (Cat # PAB26838).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of HDAC4/HDAC5/HDAC9.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to residues surrounding S246/S259/S220 of human HDAC4/HDAC5/HDAC9.
Sequence	T-A-Sp-E-P
Host	Rabbit
Theoretical MW (kDa)	140, 124

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Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity chromatography
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) Immunofluorescence (1:100-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	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

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

  Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using HDAC4/HDAC5/HDAC9 polyclonal antibody (Cat # PAB26838).

- Immunofluorescence

- Western Blot (Cell lysate)

  Western blot analysis of extracts from NIH/3T3 cell using HDAC4/HDAC5/HDAC9 polyclonal antibody (Cat # PAB26838).

Gene Info — HDAC9

Entrez GeneID	9734
Protein Accession#	P56524 (Gene ID : 9759);Q9UQL6 (Gene ID : 10014);Q9UKV0 (Gene ID : 9734)
Gene Name	HDAC9
Gene Alias	DKFZp779K1053, HD7, HDAC, HDAC7, HDAC7B, HDAC9B, HDAC9FL, HDRP, KIAA0744, MI TR
Gene Description	histone deacetylase 9

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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

Gene Info — HDAC4

Entrez GeneID	9759
Protein Accession#	P56524 (Gene ID : 9759);Q9UQL6 (Gene ID : 10014);Q9UKV0 (Gene ID : 9734)
Gene Name	HDAC4
Gene Alias	HA6116, HD4, HDAC-A, HDACA, KIAA0288
Gene Description	histone deacetylase 4
Omim ID	605314
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 belongs to class II of the histone deacetyla se/acuc/apha family. It possesses histone deacetylase activity and represses transcription when t ethered to a promoter. This protein does not bind DNA directly, but through transcription factors M EF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3. [prov ided by RefSeq
Other Designations	histone deacetylase A

Gene Info — HDAC5

Entrez GeneID	10014
Protein Accession#	P56524 (Gene ID : 9759);Q9UQL6 (Gene ID : 10014);Q9UKV0 (Gene ID : 9734)

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Gene Name	HDAC5
Gene Alias	FLJ90614, HD5, NY-CO-9
Gene Description	histone deacetylase 5
Omim ID	605315
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 belongs to the class II histone deacetylase/ acuc/apha family. It possesses histone deacetylase activity and represses transcription when teth ered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form mult icomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in re pression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Tw o transcript variants encoding different isoforms have been found for this gene. [provided by RefS eq
Other Designations	antigen NY-CO-9

Disease

- Asthma
- Cardiovascular Diseases
- Cardiovascular Diseases
- Cardiovascular Diseases
- Carotid Stenosis
- Cleft Lip
- Cleft Palate
- Cognition
- Craniofacial Abnormalities
- Depressive Disorder
- Diabetes Mellitus
- Diabetes Mellitus

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- Diabetes Mellitus
- Disease Susceptibility
- Edema
- Edema
- Edema
- Fractures
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Mouth Abnormalities
- Schizophrenia
- Schizophrenia
- Tobacco Use Disorder

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