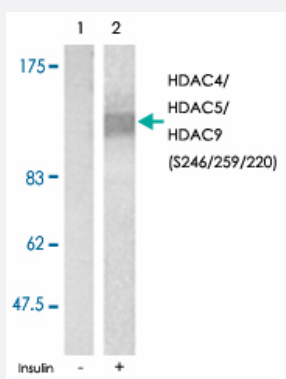


HDAC4/HDAC5/HDAC9 (phospho S246/259/220) polyclonal antibody

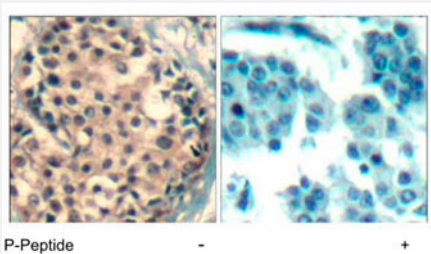
Catalog # PAB25905 Size 100 ug

Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cell using HDAC4/HDAC5/HDAC9 (phospho S246/259/220) polyclonal antibody (Cat # PAB25905).



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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC4/HDAC5/HDAC9 (phospho S246/259/220) polyclonal antibody (Cat # PAB25905).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of HDAC4/HDAC5/HDAC9.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S246/259/220 of human HDAC4/HDAC5/HDAC9.
Sequence	T-A-Sp- E-P
Host	Rabbit
Theoretical MW (kDa)	140, 124

Reactivity	Human, Mouse
Form	Liquid
Purification	Affinity chromatography
Concentration	1 mg/mL
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (without Mg^{2+} and Ca^{2+}), 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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from NIH/3T3 cell using HDAC4/HDAC5/HDAC9 (phospho S246/259/220) polyclonal antibody (Cat # PAB25905).

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

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC4/HDAC5/HDAC9 (phospho S246/259/220) polyclonal antibody (Cat # PAB25905).

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, MITR
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 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]

Other Designations

MEF-2 interacting transcription repressor (MITR) protein|histone deacetylase 4/5-related protein|histone 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 factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/alpha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. This protein does not bind DNA directly, but through transcription factors MEF2C and MEF2D. It seems to interact in a multiprotein complex with RbAp48 and HDAC3. [provided by RefSeq]

Other Designations

histone deacetylase A

Gene Info — HDAC5

Entrez GeneID

[10014](#)

Protein Accession#

[P56524 \(Gene ID : 9759\)](#);[Q9UQL6 \(Gene ID : 10014\)](#);[Q9UKV0 \(Gene ID : 9734\)](#)

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 factor 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 tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
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](#)
- [Diabetes Mellitus](#)

- [Disease Susceptibility](#)
- [Edema](#)
- [Edema](#)
- [Edema](#)
- [Fractures](#)
- [Genetic Predisposition to Disease](#)
- [Genetic Predisposition to Disease](#)
- [Mouth Abnormalities](#)
- [Schizophrenia](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)