

HDAC4/HDAC5/HDAC9(Ab-246/259/220) Antibody

Catalog No: #21517

Package Size: #21517-1 50ul #21517-2 100ul

Description

Product Name	HDAC4/HDAC5/HDAC9(Ab-246/259/220) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total HDAC4/HDAC5/HDAC9 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.244~248/257~261/218~222 (T-A-S-E-P) derived from Human HDAC4/HDAC5/HDAC9.
Conjugates	Unconjugated
Target Name	HDAC4/HDAC5/HDAC9
Other Names	HD4/HD5/HD9
Accession No.	Swiss-Prot: P56524 Q9UQL6 Q9UKV0NCBI Protein: NP_006028.2 NP_001015053.1 NP_055522.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

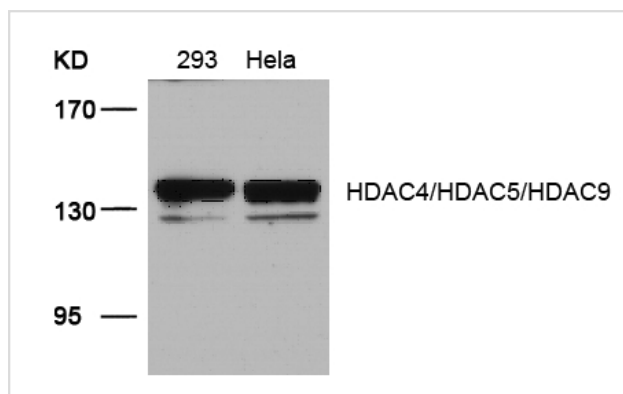
Predicted MW: 140 124 111 kd

Western blotting: 1:500~1:1000

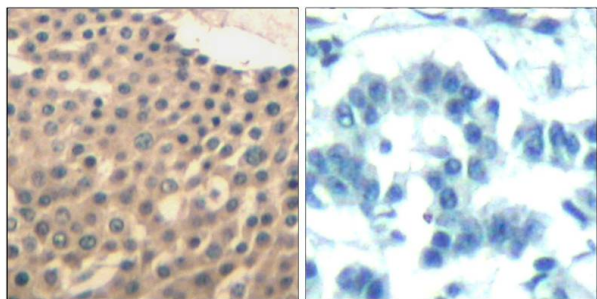
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

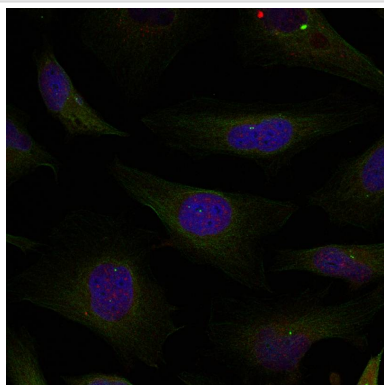
Images



Western blot analysis of extracts from 293 and HeLa cells using HDAC4/HDAC5/HDAC9(Ab-246/259/220) Antibody #21517.



Immunohistochemical analysis of paraffin-embedded human lung carcinoma tissue using HDAC4/HDAC5/HDAC9(Ab-246/259/220) Antibody #21517(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using HDAC4/HDAC5/HDAC9(Ab-246/259/220) Antibody #21517.

Background

Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D.

Cress, W.D. and Seto, E. (2000) J Cell Physiol 184, 1-16.

Vigushin, D.M. and Coombes, R.C. (2004) Curr. Cancer Drug Targets 4, 205-218.

Marmorstein, R. (2001) Cell Mol Life Sci 58, 693-703.

Thiagalingam, S. et al. (2003) Ann. N.Y. Acad. Sci. 983, 84-100.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.