

HDAC4 rabbit pAb

Cat#: orb765376 (Manual)

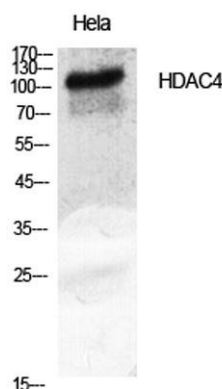
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Product Name	HDAC4 rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human HDAC4. AA range:598-647
Specificity	HDAC4 Polyclonal Antibody detects endogenous levels of HDAC4 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Histone deacetylase 4
Gene Name	HDAC4
Cellular localization	Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm. Upon muscle cells differentiation, it accumulates in the nuclei of myotubes, suggesting a positive role of nuclear HDAC4 in muscle differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-246, Ser-467 and Ser-632 by CaMK4 and SIK1. The nuclear localization probably depends on sumoylation. Interaction with SIK3 leads to HDAC4 retention in the cytoplasm (By similarity). .

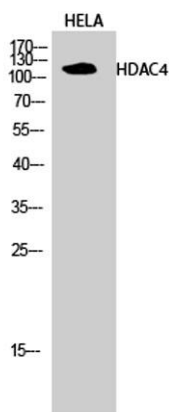
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	119kD
Human Gene ID	9759
Human Swiss-Prot Number	P56524
Alternative Names	HDAC4; KIAA0288; Histone deacetylase 4; HD4

Background

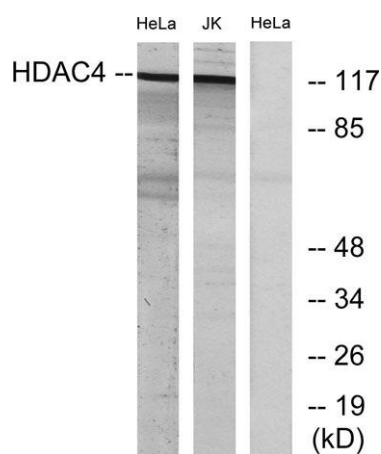
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to class II of the histone deacetylase/acuc/apha 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, Jul 2008],



Western Blot analysis of various cells using HDAC4 Polyclonal Antibody diluted at 1:2000



Western Blot analysis of HELA cells using HDAC4 Polyclonal Antibody diluted at 1:2000



Western blot analysis of lysates from HeLa and Jurkat cells, using HDAC4 Antibody. The lane on the right is blocked with the synthesized peptide.