SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-HDAC8/HRP Conjugated antibody

Catalog Number: SL2891R-HRP

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HDAC8/HRP
Immunogen:	KLH conjugated synthetic peptide derived from human HDAC8
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Pig,Cow,Horse,Rabbit)
Background:	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 I of the histone deacetylase family. It catalyzes the deacetylation of lysine residues in the histone N-terminal tails and represses transcription in large multiprotein complexes with transcriptional co-repressors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009] **Function:** 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.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	May play a role in smooth muscle cell contractility. **Subunit:** Interacts with PEPB2-MYH11, a fusion protein consisting of the 165 N-terminal residues of CBF-beta (PEPB2) with the tail region of MYH11 produced by the inversion Inv(16)(p13q22), a translocation associated with acute myeloid leukemia of M4EO subtype. The PEPB2-MYH1 fusion protein also interacts with RUNX1, a well known transcriptional regulator, suggesting that the interaction with HDAC8 may participate in the conversion of RUNX1 into a constitutive transcriptional repressor. Interacts with CBFA2T3. Interacts with phosphorylated SMG5/EST1B; this interaction protects SMG5 from ubiquitin-mediated degradation. Associates with alpha-SMA (smooth muscle alpha-actin). **Subcellular Location:** Nucleus. Cytoplasm. Excluded from the nucleoli. Found in the cytoplasm of cells showing smooth muscle differentiation. **Tissue Specificity:** Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney. **Post-translational modifications:** Phosphorylated by PKA on serine 39. Phosphorylation reduces deacetylase activity observed preferentially on histones H3 and H4. **Similarity:** Belongs to the histone deacetylase family. HD type 1 subfamily. **Database links:** **Entrez Gene:** 55869 Human **Entrez Gene:** 70315 Mouse **Entrez Gene:** 363481 Rat Omim: 300269 Human **SwissProt:** Q9BY41 Human **SwissProt:** Q8VH37 Mouse **SwissProt:** B1WC68 Rat **Unigene:** 310536 Human **Unigene:** 328128 Mouse **Unigene:** 208476 Rat Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.