

HDAC8 Antibody

Rabbit mAb

Catalog # AP90904

Product Information

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|--------------------------|---|
| Application | WB, FC, IP |
| Primary Accession | Q9BY41 |
| Reactivity | Rat, Human, Mouse |
| Clonality | Monoclonal |
| Other Names | Histone deacetylase 8; HD8; HDAC8; HDACL1; CDA07; RPD 3; MRXS6; |
| Isotype | Rabbit IgG |
| Host | Rabbit |
| Calculated MW | 41758 |

Additional Information

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|-------------------------------------|--|
| Dilution | WB 1:5000~1:20000 IP 1:50 FC 1:50 |
| Purification | Affinity-chromatography |
| Immunogen | A synthesized peptide derived from human HDAC8 |
| Description | 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. May play a role in smooth muscle cell contractility. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle. |

Protein Information

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|-----------------|---|
| Name | HDAC8 {ECO:0000303 PubMed:10926844, ECO:0000312 HGNC:HGNC:13315} |
| Function | Histone deacetylase that catalyzes the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed: 10748112 , PubMed: 10922473 , PubMed: 10926844 , PubMed: 14701748 , PubMed: 28497810). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (PubMed: 10748112 , PubMed: 10922473 , PubMed: 10926844 , PubMed: 14701748). Histone deacetylases act via the formation of large multiprotein complexes (PubMed: 10748112 , PubMed: 10922473 , PubMed: 10926844 , PubMed: 14701748). Also involved in the deacetylation of cohesin complex protein SMC3 regulating release of cohesin complexes from chromatin (PubMed: 22885700). May play a role in smooth muscle cell |

contractility (PubMed:[15772115](#)). In addition to protein deacetylase activity, also has protein-lysine deacylase activity: acts as a protein decrotonylase by mediating decrotonylation ((2E)-butenoyl) of histones (PubMed:[28497810](#)).

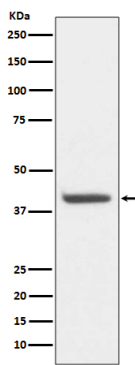
Cellular Location

Nucleus. Chromosome Cytoplasm Note=Excluded from the nucleoli (PubMed:10748112). Found in the cytoplasm of cells showing smooth muscle differentiation (PubMed:15772115, PubMed:16538051).

Tissue Location

Weakly expressed in most tissues. Expressed at higher level in heart, brain, kidney and pancreas and also in liver, lung, placenta, prostate and kidney.

Images



Western blot analysis of HDAC8 expression in HeLa cell lysate.

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