10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Recombinant Anti-HDAC8 Rabbit mAb

Catalog # AP94989

Product Information

Application	WB, FC, IP
Primary Accession	Q9BY41
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal
Calculated MW	41758

Additional Information

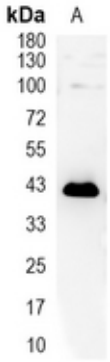
Gene ID	55869
Other Names	HDACL1; Histone deacetylase 8; HD8
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human HDAC8 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) FC~~1:10~50 IP~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

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 (A) whole cell lysates. (Predicted band size: 42 kD; Observed band size: 42 kD)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.