

HDAC8 Rabbit mAb

Catalog # AP75533

Product Information

Application	WB, FC, IP
Primary Accession	Q9BY41
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	41758

Additional Information

Gene ID	55869
Other Names	HDAC8
Dilution	WB~~1:1000-1:5000 FC~~1:50-1:100 IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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 deacetylation ((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).

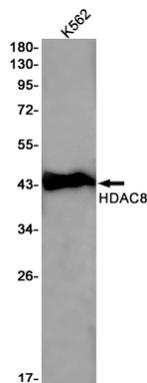
Tissue Location

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

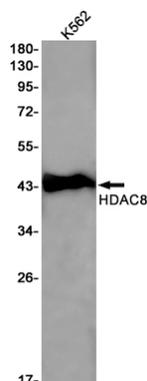
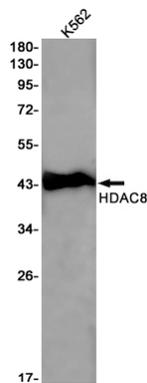
Background

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. May play a role in smooth muscle cell contractility.

Images



Western blot analysis of HDAC8 in K562 lysates using HDAC8 antibody.



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