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Anti-HDAC5 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17752

Product Information

Application	WB, IHC-P, IP
Primary Accession	Q9UQL6
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	121978
Concentration (mg/ml)	0.5 mg/ml

Additional Information

Gene ID	10014
Alias Symbol	HDAC5
Other Names	HDAC5, Antigen NY-CO-9, Histone deacetylase 5, NY-CO-9, HD5, KIAA0600
Target/Specificity	The antibody detects ~124 kD histone deacetylase 5. It does not cross-react with other HDAC proteins including HDAC1, 2, 3, 4, 6, 7, and 8.
Reconstitution & Storage	Affinity purified
Precautions	Anti-HDAC5 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HDAC5
Function	In vitro, it deacetylates lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed:10220385). 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. Involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. Serves as a corepressor of RARA and causes its deacetylation (PubMed:28167758). In association with RARA, plays a role in the repression of microRNA-10a and thereby in the inflammatory response (PubMed:28167758).

Cellular Location	Nucleus. Cytoplasm. Note=Shuttles between the nucleus and the cytoplasm. In muscle cells, it shuttles into the cytoplasm during myocyte differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-259 and Ser-498 by AMPK, CaMK1 and SIK1
Tissue Location	Widely expressed. Expressed in the heart, brain, kidney, pancreas, liver, skeletal muscle, placenta (PubMed:10220385)

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