

DATASHEET

Histone Deacetylase 7 Rabbit Polyclonal Antibody

CAT. NO. APA08109

KEY FEATURES

Target	Histone Deacetylase 7	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB, IHC	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

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 . Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C . During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors . May be involved in Epstein-Barr virus (EBV) latency, possibly by repressing the viral BZLF1 gene .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
IHC	1:100 - 1:200

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

Description	Rabbit polyclonal antibody to Histone Deacetylase 7
Specificity	Recognizes endogenous levels of Histone Deacetylase 7 protein.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Histone Deacetylase 7. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 102 kD; Observed: 105 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	HDAC7A; Histone deacetylase 7; HD7; Histone deacetylase 7A; HD7a
Gene Symbol	HDAC7
Entrez Gene	51564(Human); 56233(Mouse)
SwissProt	Q8WUI4(Human); Q8C2B3(Mouse); Q99P96(Rat)

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

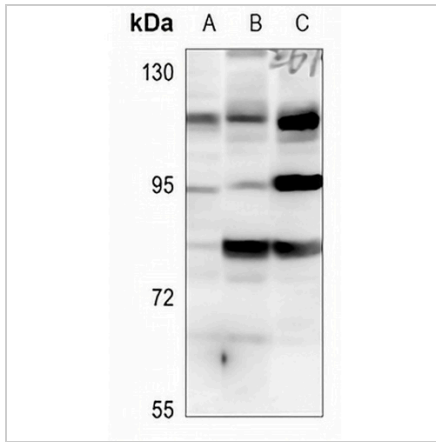
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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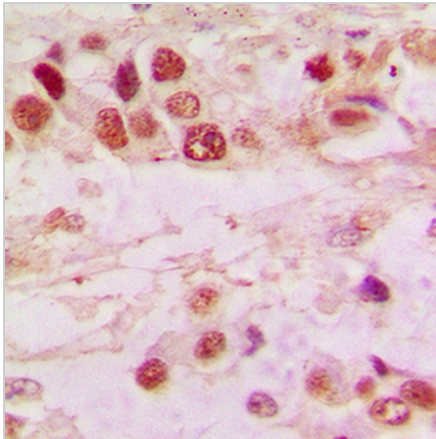
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DATA



Western blot analysis of Histone Deacetylase 7 expression in H1792 (A), mouse muscle (B), rat muscle (C) whole cell lysates. (Predicted band size: 102 kD; Observed band size: 105 kD)



Immunohistochemical analysis of Histone Deacetylase 7 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.