DATASHEET

Histone Deacetylase 7 (Phospho-S155) Rabbit Polyclonal Antibody

CAT. NO. APA09910

KEY FEATURES

Target	Histone Deacetylase 7 (Phospho-S155)	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat, Zebrafish	Clonality	Polyclonal
Applications	WB, IF/ICC	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
IF/ICC	1:100 - 1:500

*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 (Phospho-S155)
Specificity	Recognizes endogenous levels of Histone Deacetylase 7 protein only when phosphorylated at S155.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S155 of human Histone Deacetylase 7 protein. 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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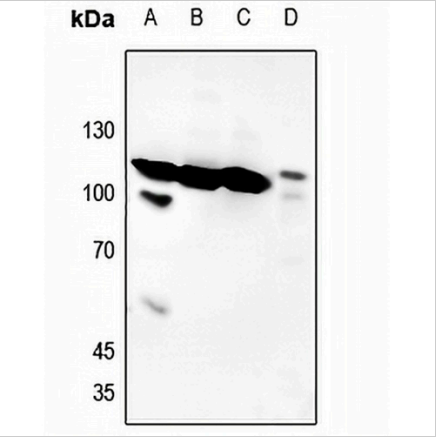
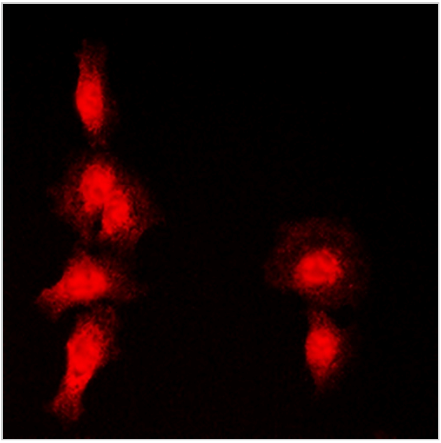
DATA



Western blot analysis of Histone Deacetylase 7 (Phospho-S155) expression in HEK293T (A), Hela (B), U2OS (C), rat lung (D) whole cell lysates. (Predicted band size: 102 kD; Observed band size: 105 kD)



Immunofluorescent analysis of Histone Deacetylase 7 (Phospho-S155) staining in HepG2 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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.