

**DATASHEET**

# Histone Deacetylase 5/9 (Phospho-S259/220) Rabbit Polyclonal Antibody

CAT. NO. APA09697

**KEY FEATURES**

Target	Histone Deacetylase 5/9 (Phospho-S259/220)	Source / Host	Rabbit
Reactivity	Human, Mouse, Bovine, Chicken, Dog, Pig, Rabbit	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 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 .

**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 5/9 (Phospho-S259/220)
Specificity	Recognizes endogenous levels of Histone Deacetylase 5/9 protein only when phosphorylated at S259/220.
Antibody Type	Primary antibody
Immunogen	KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding S259/220 of human Histone Deacetylase 5/9 protein. The exact sequence is proprietary.
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 121; Observed: 124 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	HDAC5; KIAA0600; Histone deacetylase 5; HD5; Antigen NY-CO-9; HDAC9; HDAC7; HDAC7B; HDRP; KIAA0744; MITR; Histone deacetylase 9; HD9; Histone deacetylase 7B; HD7; HD7b; Histone deacetylase-related protein; MEF2-interacting transcription repressor MITR
Gene Symbol	HDAC5; HDAC9
Entrez Gene	10014; 9734(Human); 79221(Mouse)
SwissProt	Q9UQL6; Q9UKV0(Human); Q9Z2V6; Q99N13(Mouse)

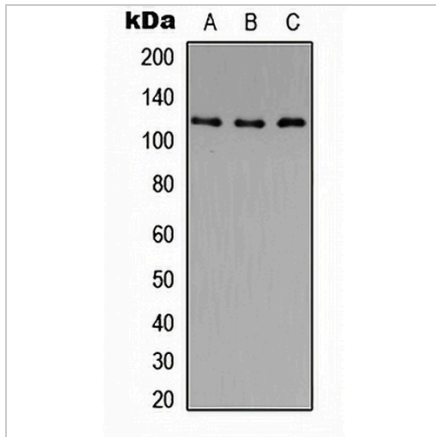
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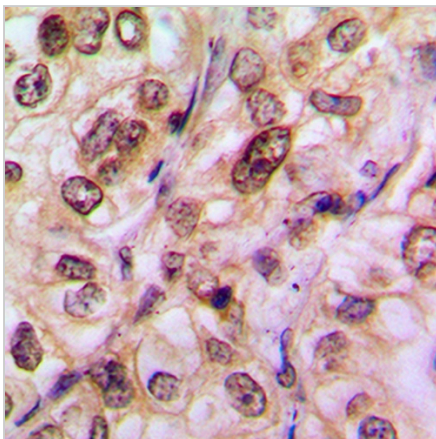
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**DATA**



Western blot analysis of Histone Deacetylase 5/9 (Phospho-S259/220) expression in PC3 (A), HeLa (B), NIH3T3 (C) whole cell lysates. (Predicted band size: 121; 111 kD; Observed band size: 124 kD)



Immunohistochemical analysis of Histone Deacetylase 5/9 (Phospho-S259/220) staining in human breast 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.