

DATASHEET

Histone Deacetylase 4 Mouse Monoclonal Antibody(C3281)

CAT. NO. AMA02893

KEY FEATURES

Target	Histone Deacetylase 4	Source / Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey	Clonality	Monoclonal
Applications	WB, IP	Conjugation	Unconjugated
Form / Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.	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 via its interaction with the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer. Deacetylates HSPA1A and HSPA1B at 'Lys-77' leading to their preferential binding to co-chaperone STUB1 .

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
IP	1:10 - 1:50

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

PRODUCT OVERVIEW

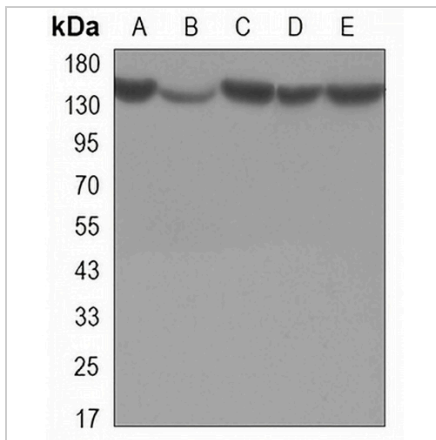
Description	Mouse monoclonal antibody to Histone Deacetylase 4
Specificity	Recognizes endogenous levels of Histone Deacetylase 4 protein.
Antibody Type	Primary antibody
Immunogen	Purified recombinant human HDAC4 protein fragments expressed in E.coli
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 119 kD; Observed: 140 kD
Form/Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Alternative Names	KIAA0288; Histone deacetylase 4; HD4
Gene Symbol	HDAC4
Entrez Gene	9759(Human); 208727(Mouse); 363287(Rat)
SwissProt	P56524(Human); Q6NZM9(Mouse); Q99P99(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 4 expression in Jurkat (A), HeLa (B), K562 (C), C2C12 (D), NIH3T3 (E) whole cell lysates. (Predicted band size: 119 kD; Observed band size: 140 kD)

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.