DATASHEET

Histone H3 (Citrulline Arg2+Arg8+Arg17) Rabbit Monoclonal Antibody(ARA484)

CAT. NO. ARA5796

KEY FEATURES

Target	Histone H3 (Citrulline Arg2+Arg8+Arg17)	**Source / Host**	Rabbit
Reactivity	Human, Mouse, Rat	**Clonality**	Monoclonal
Applications	WB,IHC,IF/ICC,IP,ELISA	**Conjugation**	Unconjugated
Isotype	IgG, Kappa	**Storage**	at -20°C

BACKGROUND

Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. This structure consists of approximately 146 bp of DNA wrapped around a nucleosome, an octamer composed of pairs of each of the four core histones (H2A, H2B, H3 and H4). Histone H3 is a core histone that undergoes extensive post-translational modification, including citrullination, in which peptidylarginine deiminase (PAD) enzymes convert arginine residues to citrulline. Citrullination of histone H3, including Arg2, Arg8 and Arg17, alters chromatin structure and is associated with transcriptional regulation as well as with the generation of citrullinated autoantigens.

APPLICATION

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

WB	1:1,000 - 1:5,000
IHC	1:25 - 1:100
IF/ICC	1:25 - 1:50
IP	1:50 - 1:200
ELISA	1:5,000 - 1:20,000

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

OVERVIEW

Description	Rabbit monoclonal antibody to Histone H3 (Citrulline Arg2+Arg8+Arg17) for WB, IHC, IF, IP and ELISA.
Specificity	Recognizes endogenous levels of Histone H3 citrullinated at Arg2, Arg8 and Arg17.
Antibody Type	Primary antibody
Molecular Weight	Predicted: 15 kDa; Observed: 15 kDa
Purification	Protein A affinity purification
Isotype	IgG, Kappa
Form/Buffer	Liquid in PBS with 50% glycerol, 0.05% ProClin 300 and 0.05% BSA.
Subcellular Location	Nucleus.
Alternative Names	Histone H3.1, Histone H3/a, Histone H3/b
Gene Symbol	HIST1H3A, HIST1H3B, HIST1H3C, HIST1H3D, HIST1H3E, HIST1H3F, HIST1H3G, HIST1H3H, HIST1H3I, HIST1H3J
Entrez Gene	8350; 8351; 8352; 8353; 8354; 8355; 8356; 8357; 8358; 8968 (Human)
SwissProt	P68431 (Human)

*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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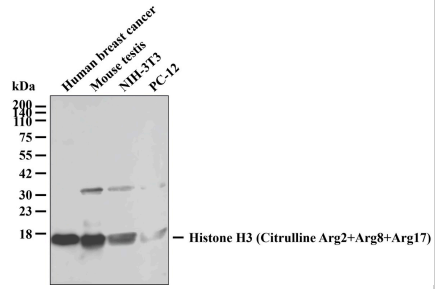
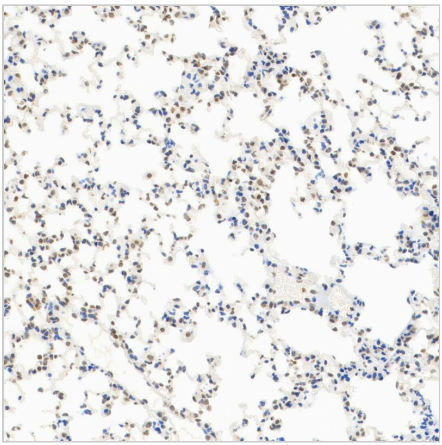


Western blot analysis of various lysates using Histone H3 (Citrulline Arg2+Arg8+Arg17) Rabbit Monoclonal Antibody(ARA484) at 1:1,000 dilution.

Lane 1: Human breast cancer tissue lysate (40 µg/Lane)
Lane 2: Mouse testicular tissue lysate (40 µg/Lane)
Lane 3: NIH-3T3 cell lysate (20 µg/Lane)
Lane 4: PC-12 cell lysate (20 µg/Lane)

Predicted band size: 15 kDa
Observed band size: 15 kDa
Secondary antibody: HRP-conjugated Goat Anti-Rabbit IgG (H+L) at 1:10,000 dilution.
Blocking buffer: 5% nonfat dry milk in TBST.
Exposure time: 20 seconds.



Immunohistochemical analysis of paraffin-embedded mouse lung tissue using Histone H3 (Citrulline Arg2+Arg8+Arg17) Rabbit Monoclonal Antibody(ARA484) at 1:50 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissue was probed with the primary antibody at 1:50 dilution overnight at 4°C. The polymer-HRP Anti-Rabbit IgG (H+L) antibody was used to detect the signal.

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.

More information: www.arexbio.com