

Product datasheet

info@arigobio.com

ARG43034 anti-Histone H4 lactyl (Lys5) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes Histone H4 lactyl (Lys5)

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name Histone H4

Species Human

Immunogen Lactic acid-specific peptide around Lys5 of Human Histone H4.

Conjugation Un-conjugated

Alternate Names H4; H4/n; H4C1; H4C2; H4C3; H4C4; H4C5; H4C6; H4C8; H4C9; H4F2; H4FN; FO108; H4-16; H4C11;

H4C12; H4C13; H4C15; HIST2H4; HIST2H4A

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	C6 + Sodium lactate	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol H4C14

Gene Full Name H4 clustered histone 14

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). The chromatin fiber is further compacted through the interaction of a linker histone, H1, with the DNA between the nucleosomes to form higher order chromatin structures. This gene is intronless and encodes a replication-dependent histone that is a member of the histone H4 family. Transcripts from this gene lack polyA tails; instead, they contain a palindromic termination element. This gene is found in a histone cluster on chromosome 1. This gene is one of four histone genes in the cluster that are duplicated; this record represents the centromeric copy. [provided by RefSeq, Aug 2015]

Function Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA

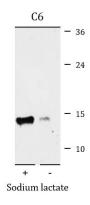
accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called

histone code, and nucleosome remodeling. [UniProt]

Calculated Mw 11 kDa

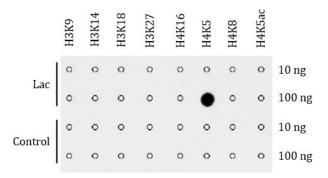
Cellular Localization Nucleus. Chromosome. [UniProt]

Images



ARG43034 anti-Histone H4 lactyl (Lys5) antibody WB image

Western blot: C6 cells were untreated (-) or treated (+) by Sodium lactate (100 mM) for 24 hours. 25 μg of cell lysates stained with ARG43034 anti-Histone H4 lactyl (Lys5) antibody at 1:500 dilution.



ARG43034 anti-Histone H4 lactyl (Lys5) antibody Dot blot image

Dot blot: Analysis of all sorts of peptides using ARG43034 anti-Histone H4 lactyl (Lys5) antibody at 1:4000 dilution.