Datasheet for ABIN6972090

anti-Histone H4ac antibody (AA 1-24)

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Overview

Quantity:	100 µg
Target:	Histone H4ac (HIST1H4C)
Binding Specificity:	AA 1-24
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunocytochemistry (ICC), Immunofluorescence (IF), Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	This Histone H4 acetyl antibody was raised against a peptide corresponding to amino acids 1-24 of human histone H4 acetylated at lysines 5, 8, 12 and 16. Due to sequence similarity, cross-reactivity has been observed with acetylated Histone H2A.
Clone:	3HH4-2C2
Isotype:	IgG1 kappa
Characteristics:	Histone H4 is one of the core components of the nucleosome. The nucleosome is the smallest subunit of chromatin and consists of 147 base pairs of DNA wrapped around an octamer of core histone proteins (two each of Histone H2A, Histone H2B, Histone H3 and Histone H4). Histone H1 is a linker histone, present at the interface between the nucleosome core and DNA entry/exit points, it is responsible for establishing higher-order chromatin structure. Chromatin is subject to a variety of chemical modifications, including post-translational modifications of the histone proteins and the methylation of cytosine residues in the DNA. Reported histone

Product Details

	modifications include acetylation, methylation, phosphorylation, ubiquitylation, glycosylation, ADP-ribosylation, carbonylation and SUMOylation, they play a major role in regulating gene expression. Lysine N-e-acetylation is a dynamic, reversible and tightly regulated protein and histone modification that plays a major role in chromatin remodeling and in the regulation of gene expression in various cellular functions. Acetylation of histone H4 occurs at several different lysine positions in the histone tail, and is performed by Histone Acetyltransferases (HATs) such as Hat1 or Gcn5. Acetylation of histones is often associated with transcriptional activation. Histone H4ac (pan-acetyl) antibody (mAb) (Clone 3HH4-2C2) was raised in a Mouse host. It has been validated for use in Immunocytochemistry, Immunofluorescence, Immunohistochemistry and Western blot, it has been shown to react with Human samples, but it is predicted that it will react with a wide range of sample types.
Purification:	Protein A Chromatography

Target Details

Target:	Histone H4ac (HIST1H4C)
Alternative Name:	Histone H4ac (HIST1H4C Products)
Molecular Weight:	8 kDa
NCBI Accession:	NP_778224

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20°C for up to 2 years. Keep all reagents on ice when not in storage.