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Datasheet for ABIN6971791 anti-Histone H2A antibody (pThr120)

2 Images



Overview

Overview	
Quantity:	100 µg
Target:	Histone H2A
Binding Specificity:	pThr120
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Histone H2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Dot Blot (DB)
Product Details	
Immunogen:	This Histone H2A phospho Thr120 antibody was raised against a peptide containing phospho
	Thr120 of human histone H2A.
Isotype:	
	lgG
Characteristics:	IgG Histone H2A is one of the core components of the nucleosome. The nucleosome is the
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	major role in regulating gene expression. Phosphorylation of histones occurs at multiple sites
	during mitosis. H2A Thr120 phosphorylation is observed on chromatin during both mitosis and
	meiosis. Thr120 phosphorylation is inversely correlated with ubiquitylation of H2A Lys119 in
	meiotic mouse spermatocytes. In Drosophila, loss of H2A Thr120 phosphorylation is
	associated with a failure to disassemble the synaptonemal complex, impaired loading of
	condensin and female infertility. It is possible that H2A Thr120 phosphorylation is involved in
	the regulation of chromatin structure. Histone H2AT120ph antibody (pAb) was raised in a
	Rabbit host. It has been validated for use in Dot blot, Immunofluorescence 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

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Target:	Histone H2A
Abstract:	Histone H2A Products
Molecular Weight:	14 kDa
NCBI Accession:	NP_003508
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.

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Dot Blot

Image 1. Histone H2A phospho Thr120 pAb tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H2A phospho Thr120 pAb for phospho Thr120 histone H2A. The modified and unmodified peptides to the immunogen were spotted onto PVDF and probed with the antibody at a dilution of $1 \mu g/mL$. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: Phospho Thr120 peptide. Lane 2: Unmodified Thr120 peptide.

Western Blotting

Image 2. Histone H2A phospho Thr120 pAb tested by Western blot. HeLa acid extract (10 μ g per lane) was probed with Histone H2A phospho Thr120 pAb at a dilution of 1 μ g/mL . Lane 1: No treatment. Lane 2: Cells treated with colcemid to arrest cells at mitosis.

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